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E. Williams
PATENT 7-25-02

Attorney Docket No.: A-69605-1/DJB/RMS/DCF

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

GUNDERSON et al.

Serial No. 09/940,185

Filed: August 27, 2001

For: PROBES AND DECODER
OLIGONUCLEOTIDES

Examiner: Not Yet Assigned

Group Art Unit: 1645

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including listed enclosures, is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on:

Dated: 1/22/02

Signed: 

Fern Marder

PRELIMINARY AMENDMENT
RE SEQUENCE LISTING

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

This Amendment re Sequence Listing is being submitted in reply to the Notice to File Missing Parts of Nonprovisional Application, dated October 19, 2001. The present Amendment is submitted to comply with requirements for patent applications containing nucleotide sequence and/or amino acid sequences.

The Commissioner is authorized to charge any fees, including extension fees, which may be required, or credit any overpayment to Deposit Account No. 06-1300 (Our Order No.

A-69605-1/DJB/RMS/DCF).

Please amend the application as follows and to comply with requirements for patent applications containing nucleotide sequence and/or amino acid sequence disclosures in adherence with rules 37 C.F.R. § 1.821-1.825:

Serial No.: 09/940,185
Filed: August 27, 2001



IN THE SPECIFICATION:

Please insert the following paragraph starting on page 1 line 5:

SEQUENCE LISTING

A1 The compact disc containing the Sequence Listing is hereby incorporated by references. The compact disc contains the file named Seq. List for 09_940,185, created on January 22, 2002, and containing 1000 kilobytes.

Please replace the section entitled "Summary of the Invention", starting on page 5, line 12, with the following rewritten section:

SUMMARY OF THE INVENTION

A2 In accordance with the above objects, the invention also provides a method of detecting a target nucleic acid. The method comprises contacting the target nucleic acid with an adapter sequence such that the target nucleic acid is joined to the adapter sequence to form a modified target nucleic acid. In addition, the method comprises contacting the modified target nucleic acid with an array comprising a substrate with a surface comprising discrete sites and a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that the first capture probe and the modified target nucleic acid form a complex, wherein the microspheres are distributed on the surface, and detecting the presence of the target nucleic acid. In addition the method comprises adding at least one decoding binding ligand to the array such that the identity of the target nucleic acid is determined. Preferably the adapter nucleic acids include a sequence as set forth in Table 1 (SEQ ID NOS: 17-4000), Table 2 (SEQ ID NOS: 1-40, 42-54, 56-115, 117-272, 274-295, 297-300, 302-329, 331-332, 334-370, 372-437, 439-454, 456-457, 459-475, 477-503, 505-540, 542-548, 550-598, 600-649, 651-759, 761-847, 849-1147, 1149-1155, 1157-1171, 1173-1203, 1205-1250, 1252-1275, 1277-1284, 1286-1289, 1291-1568, 1570-1996, 1998-2014, 2016-2044, 2046-2139, 2141-2183, 2185-2195, 2197-2215, 2217-2532, 2534-2565, 2567-2569, 2571-2597, 2599-2619, 2621-2639, 2641-2698, 2700-2746, 2748-2772, 2774-2777, 2779-2803, 2805-2832, 2834-2877, 2879-2915, 2917-2969, 2971-3009, 3011-3044, 3046-3078, 3080-3159, and 3161-3232), Table 3 (SEQ ID NOS: 1-16, 18-40, 42-54, 56-113, 117-210, 213-272, 274-295, 297-300, 302-309, 312-329, 331-332, 334-370, 372-408, 411-437, 439-456, 459-475, 477-508, 512-540, 542-548, 550-598, 600-608, 611-649, 651-705, 708-759, and 761-802) or Table 4 (SEQ ID NOS: 4001-4768).

Serial No.: 09/940,185

Filed: August 27, 2001

In addition the invention provides a method of making an array. The method comprises forming a surface comprising individual sites on a substrate, distributing microspheres on the surface such that the individual sites contain microspheres, wherein the microspheres comprise at least a first and a second subpopulation each comprising a capture probe, wherein the capture probe is complementary to an adapter sequence, the adapter sequence joined to a target nucleic acid, and an identifier binding ligand that will bind at least one decoder binding ligand such that the identification of the target nucleic acid is elucidated. Preferably the adapter nucleic acids include a sequence as set forth in Table 1, Table 2, Table 3 or Table 4.

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In addition the invention provides a kit comprising at least one nucleic acid selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 or Table 4. In one embodiment the invention provides a kit that includes a nucleic acid that includes a sequence as set forth in Table 1, Table 2, Table 3 or Table 4.

In addition the invention includes an array composition comprising a first population of microspheres comprising first and second subpopulations, wherein the first subpopulation includes a first nucleic acid selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4 and the second subpopulation includes a second sequence selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4.

In addition the invention includes an array composition comprising a first sequence at a known location on a substrate, wherein the first sequence is selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4.

In addition the invention includes a method for making an array. The method includes distributing a population of microspheres on an substrate, wherein the population includes first and second subpopulations, wherein the first subpopulation includes a first sequence selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 or Table 4 and the second subpopulation includes a second sequence selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 or Table 4.

Serial No.: 09/940,185
Filed: August 27, 2001

In addition the method includes a method of immobilizing a target nucleic acid. The method includes hybridizing a first adapter probe with a first target nucleic acid, wherein the first adapter probe comprises a first domain that is complementary to the first target nucleic acid and a second domain, comprising a first sequence selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4 to form a first hybridization complex. In addition the method includes contacting the first hybridization complex with a first capture probe immobilized on a first substrate, wherein the first capture probe is substantially complementary to the second domain of the first adapter probe.

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In addition the invention includes a method of decoding an array composition comprising providing an array composition that includes a substrate with a surface comprising discrete sites and a population of microspheres comprising at least a first and a second subpopulation, wherein each subpopulation comprises a bioactive agent. The microspheres are distributed on the surface. The method further includes adding a plurality of decoding binding ligands to the array composition to identify the location of at least a plurality of the bioactive agents wherein at least a first decoder binding ligand comprises a sequence selected from the group consisting of the sequences of Table 1, Table 2, Table 3 or Table 4.

A method of detecting a target nucleic acid sequence, said method comprising attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein the first adapter nucleic acid includes a sequence selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4. The method further includes contacting the modified first target nucleic acid sequence with an array comprising a substrate with a patterned surface comprising discrete sites and a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that the first capture probe and the modified first target nucleic acid sequence form a hybridization complex; wherein the microspheres are distributed on the surface and detecting the presence of the modified first target nucleic acid sequence.

Please replace the paragraph starting on page 13, line 30, with the following rewritten paragraph:

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Accordingly, by "adapter sequences" or "adapters" or grammatical equivalents is meant a nucleic acid segment generally non-native or exogenous to a target molecule that is used to immobilize the target molecule to a solid support via binding to a capture probe sequence. In

Serial No.: 09/940,185

Filed: August 27, 2001

A3
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a preferred embodiment the adapter sequences and capture probes are selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4.

Please replace the paragraph starting on page 13, line 36, with the following rewritten paragraph:

Table 1 (SEQ ID NOS: 17-4000) includes the sequence of the preferred 3983 sequences labeled "Decoder (5'-3')", and inherent in this table are the complementary sequences as well. In addition, the invention includes oligonucleotides that are complementary to those depicted in Table 1.

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Please replace the paragraph starting on page 14, line 1, with the following rewritten paragraph:

Table 2 (SEQ ID NOS: 1-40, 42-54, 56-115, 117-272, 274-295, 297-300, 302-329, 331-332, 334-370, 372-437, 439-454, 456-457, 459-475, 477-503, 505-540, 542-548, 550-598, 600-649, 651-759, 761-847, 849-1147, 1149-1155, 1157-1171, 1173-1203, 1205-1250, 1252-1275, 1277-1284, 1286-1289, 1291-1568, 1570-1996, 1998-2014, 2016-2044, 2046-2139, 2141-2183, 2185-2195, 2197-2215, 2217-2532, 2534-2565, 2567-2569, 2571-2597, 2599-2619, 2621-2639, 2641-2698, 2700-2746, 2748-2772, 2774-2777, 2779-2803, 2805-2832, 2834-2877, 2879-2915, 2917-2969, 2971-3009, 3011-3044, 3046-3078, 3080-3159, and 3161-3232) includes the sequence of the preferred adapter/capture probe sequences and their complementary sequence. Table 2 depicts a preferred subset of 3176 decoder oligonucleotides and their complementary probe oligonucleotides. Accordingly, the invention provides compositions comprising a sequence as outlined in Table 2. In addition, the invention provides a composition comprising a complementary binding pair as outlined in Table 2.

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Please replace the paragraph starting on page 14, line 6, with the following rewritten paragraph:

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Table 3 (SEQ ID NOS: 1-16, 18-40, 42-54, 56-113, 117-210, 213-272, 274-295, 297-300, 302-309, 312-329, 331-332, 334-370, 372-408, 411-437, 439-456, 459-475, 477-508, 512-540, 542-548, 550-598, 600-608, 611-649, 651-705, 708-759, and 761-802) includes a preferred subset of 767 decoder oligonucleotides and complementary probe sequences. In some embodiments it may be desirable to include a uniform base at a terminus of the oligonucleotide, such as a T at the 5' end as depicted in Table 4. The inclusion of this uniform or constant base facilitates uniform labeling of the oligonucleotides.

Please replace the paragraph starting on page 14, line 21, with the following rewritten paragraph:

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As will be appreciated by those in the art, it is desirable to have adapter sequences that do not have significant homology to naturally occurring target sequences, to avoid non-specific or erroneous binding of target sequences to the capture probes. Accordingly, preferred embodiments utilize some method to select useful adapter sequences. In a preferred embodiment the method is outlined in Figure 1. Briefly, random 24-mer (or could be any desired length as outlined herein), sequences were assembled and subjected to certain defined screening procedures including such steps as requiring that the T_m of each of the sequence be within a pre-defined range. In addition the GC content must be balanced with the AT content and the self-complementarity must be minimized. In addition GC runs should be minimized, that is, runs of Gs or Cs should be reduced. In addition, decoder (adapter) to decoder (adapter) complementarity should be reduced so that the adapters do not hybridize with each other. Finally, the sequences are screened against a specified genomic database. In a preferred embodiment the adapters comprise at least one sequence selected from the sequences in Table 1, Table 2, Table 3 or Table 4.

Serial No.: 09/940,185
Filed: August 27, 2001

Please replace the paragraph starting on page 17, line 6, with the following rewritten paragraph:

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The adapter sequences may be chosen as outlined above. Preferably the adapters are selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4. These adapter sequences can then be added to the target analytes using a variety of techniques. In general, as described above, non-covalent attachment using binding partner pairs may be done, or covalent attachment using chemical moieties (including linkers).
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Please replace the table starting on page 139, line 1, with the following rewritten table:

TABLE 2

Seq. ID No.	Decoder Sequence (5'-3')	Probe Sequence (5'-3')
1	TTCGCCGTCGTGTAGGCTTTTCAA	TTGAAAAGCCTACACGACGGCGAA
2	TTCGAAGCGCACGTCCCTTTTCAA	TTGAAAAGGGACGTGCGCTTCGAA
3	AACGCGTGGGGAATGGGACATCAA	TTGATGTCCCATTCCCCACGCGTT
4	CCGTGCGATACCGGCTACGATCAA	TTGATCGTAGCCGGTATGCGACGG
5	ATGGCCGTGCTGGGGACAAGTCAA	TTGACTTGTCCCCAGCACGGCCAT
6	TTGCAACGGGCTGGTCAACGTCAA	TTGACGTTGACCAGCCCGTTGCAA
7	CGCATAGGTTGCCGATTTTCGTCAA	TTGACGAAATCGGCAACCTATGCG
8	CCGTTTGCGGTCGTCTTGCTCAA	TTGAGCAAGGACGACCGCAAACGG
9	TTCGCTTTCGTGGCTGCACTTCAA	TTGAAGTGCAGCCACGAAAGCGAA
10	GTCCAACGCGCAACTCCGATTCAA	TTGAATCGGAGTTGCGCGTTGGAC
11	TTGCCGCACCGTCCGTCATCTCAA	TTGAGATGACGGACGGTGCGGCAA
12	CATCGTCCCTTTTCGATGGGATCAA	TTGATCCCATCGAAAGGGACGATG
13	GCACGGGAGCTGACGACGTGTCAA	TTGACACGTCGTCAGCTCCCGTGC
14	AGACGCACCGCAACAGGCTGTCAA	TTGACAGCCTGTTGCGGTGCGTCT
15	CGTGTAGGGGTCCTGTGTCAA	TTGACAGCACGGGACCCCTACACG
16	CATCGCTGCAAGTACCGCACTCAA	TTGAGTGCGGTACTTGACGCGATG
17	GGCTGGTTCGGCCCGAAAGCTTAG	CTAAGCTTTCGGGCCGAACCAGCC

Serial No.: 09/940,185

Filed: August 27, 2001

18	GTTCCCAGTGAAGCTGCGATCTGG	CCAGATCGCAGCTTCACTGGGAAC
19	TACTTGGCATGGAATCCCTTACGC	GCGTAAGGGATTCCATGCCAAGTA
20	ACTAGCATATTTCAAGGCACCGGC	GCCGGTGCCCTGAAATATGCTAGT
21	GAACGGTCAATGAACCCGCTGTGA	TCACAGCGGGTTCATTGACCGTTC
22	GCGGCCCTTGGTTCAATATGAATCG	CGATTCAATTTGAACCAAGGCCGC
23	GATCGTTAGAGGGACCTTGCCCGA	TCGGGCAAGGTCCCTCTAACGATC
24	TGGACCTAGTCCGGCAGTGACGAA	TTCGTCACTGCCGGACTAGGTCCA
25	ATAAACTACCCAGGACGGGCGGAA	TTCCGCCCCGTCTGGGTAGTTTAT
26	CATCGGTTGCGGCCAATCCAGATA	TATCTGGATTGGCGCGAACCGATG
27	GTCGGGCATAGAGCCGACCACCCT	AGGGTGGTCGGCTCTATGCCCGAC
28	CTTGGGTCATGATTCACCGTGCTA	TAGCACGGTGAATCATGACCCAAG
29	TGCCTAACGTGCTAATCAGCAGCG	CGCTGCTGATTAGCACGTTAGGCA
30	CGCATGTTGGAGCATATGCCCTGA	TCAGGGCATATGCTCCAACATGCG
31	AGCCACTGCATCAGTGCTGTTCAA	TTGAACAGCACTGATGCAGTGGCT
32	GGTTGTTTTGAGGCGTCCCACACT	AGTGTGGGACGCCTCAAAACAACC
33	TCGACCAAGAGCAAGGGCGGACCA	TGGTCCGCCCTTGCTCTTGGTCTGA
34	GACATCGCTATTGCGCATGGATCA	TGATCCATGCGCAATAGCGATGTC
35	GAAATACGAAGTCTGCGGGAGTCG	CGACTCCCGCAGACTTCGTATTTT
36	TGTCATGAATGATTGATCGCGCGA	TCGCGCGATCAATCATTATGACA
37	ATATCGGGATTCTGTTCCCGGTGAA	TTCACCGGGAACGAATCCCGATAT
38	GCGAGCGTACCGAAGGGCCTAGAA	TTCTAGGCCCTTCGGTACGCTCGC
39	TTACCGGCAGCGGACTTCCGAATT	AATTCGGAAGTCCGCTGCCGGTAA
40	GTAATCGAGAGCTGCGCGCCGTCT	AGACGGCGCGCAGCTCTCGATTAC
42	CCTGTTAGCGTAGGCGAGTCGATC	GATCGACTCGCCTACGCTAACAGG
43	TAGCGGACCGGCAGAATGAGTTCC	GGAATCATTCTGCCGGTCCGCTA
44	GGTACATGCACTACGCGCACTCGG	CCGAGTGCGCGTAGTGATGTACC
45	AATTCATCTCGGACTCCCGCGGTA	TACCGCGGGAGTCCGAGATGAATT
46	GCCAAATCTGATTGGCAGGAATG	CATTCTGCCAATCCAGATTTGGC
47	TGCATTTTCGGTTGAGGCACATCC	GGATGTGCCTCAACCGAAAATGCA
48	CCGCTCAATTCACCATGCTTCGCT	AGCGAAGCATGGTGAATTGAGCGG
49	CTCGGAAAGGTGCAACTTTGGTGT	ACACCAAAGTTGCACCTTTCCGAG
50	AATTCGACCAGCAGAACGTCCCAT	ATGGGACGTTCTGCTGGTCTGAATT
51	GCCAGAGTCTCAACCTCACGGGAT	ATCCCGTGAGGTTGAGACTCTGGC
52	CCAACAATGGAACGGGAACCCGC	GCGGGTTCCCGTTCCAGTTGTTGG
53	GAGAACTGATCGCTGAGGGGCATG	CATGCCCCCTCAGCGATCAGTTCTC
54	GGCACACTAGACTTGTGGCACCGA	TCGGTGCCACAAGTCTAGTGTGCC
56	TCACATCCAAATATGGTCCGCGAA	TTCGCGGACCATATTTGGATGTGA
57	GTCTGCCGGTGTGACCGCTTCATT	AATGAAGCGGTCACACCGGCAGAC

A9
Cont'd

Serial No.: 09/940,185
 Filed: August 27, 2001

A9
 cont'd

58	CATCGCAGAGCATAAACACCCTCA	TGAGGGTGTTTATGCTCTGCGATG
59	GTTGGTATCTATGGCAGAGGCGGA	TCCGCCTCTGCCATAGATACCAAC
60	ACGAGGTGCCGCTGAGGTTCCATT	AATGGAACCTCAGCGGCACCTCGT
61	GGAATGAGTGGACCCAGGCACATT	AATGTGCCTGGGTCCACTCATTCC
62	TGTCAATATGCGTCCGTGTCGTCT	AGACGACACGGACGCATATTGACA
63	TGATGAGCCTCAGGGTACGAGGCA	TGCCTCGTACCCTGAGGCTCATCA
64	CACCGCGGTGTTCTACAGAATGA	TCATTCTGTAGGAACACCGCGGTG
65	TTGTTGCCAATGGTGTCCGCTCGG	CCGAGCGGACACCATTGGCAACAA
66	TTAACCTGCGTCTGCCCCTTTCT	AGGAAAGGGGCAGACGCAGGTAA
67	AGGCGCGTTCCTGCCTTAGTGACG	CGTCACTAAGGCAGGAACGCGCCT
68	TAGGGCGATGGCACGAAGCTTCAA	TTGAAGCTTCGTGCCATCGCCCTA
69	TGCATAGAGCCAAAGTCGGCGATG	CATCGCCGACTTTGGCTCTATGCA
70	TTGAGAGGCAGGTGGCCACACGGA	TCCGTGTGGCCACCTGCCTCTCAA
71	TCCGCATTGTGAGAAAAACGAGC	GCTCGTTTTTCTCACAATGCGGA
72	GGCGGTTTCCGTAGCTATAGGTGC	GCACCTATAGCTACGGAAACCGCC
73	GGTGAAAATTTCTAGCCACGGGC	GCCCGTGGCTACGAAATTTTCACC
74	CCGACGGAGGATGAAGACAATCAC	GTGATTGTCTTCATCCTCCGTCGG
75	CCAGTTTGGCCCAATTCGCCAAAA	TTTTGGCGAATTGGGCCAAACTGG
76	GGATCTATTAGGCCGTGCGCACAG	CTGTGCGCACGGCCTAATAGATCC
77	CGGATGTCACCGTTTGGACTTTCA	TGAAAGTCCAAACGGTGACATCCG
78	ATCGCAAATCCTGCTCGTCCCTAA	TTAGGGACGAGCAGGATTTGCGAT
79	CAGGGCATGCAATAATCGAGGTTT	GAACCTCGATTATTGCATGCCCTG
80	CATGCGTTGATATATGGGCCCAAG	CTTGGGCCCATATATCAACGCATG
81	CAGCTGCAGCTTGTGACCAACCAC	GTGGTTGGTCACAAGCTGCAGCTG
82	TTGTATGTCTGCCGACCGGCGACC	GGTCGCCGGTCGGCAGACATACAA
83	GATGGCGCCCGTTGATAGGTATGG	CCATACCTATCAACGGGCGCCATC
84	ATGAGAATCGCCGGCAATCTGCTA	TAGCAGATTGCCGGCGATTCTCAT
85	ATTTGCACTGACCGCAGGCTCGTG	CACGAGCCTGCGGTGAGTGCAAAT
86	CAGGGAGAACGGTTAAGTTCCCGT	ACGGGAACCTTAACCGTTCTCCCTG
87	AGGCCGGCGATCGAGGAGTTTGGT	ACCAAACCTCCTCGATCGCCGGCCT
88	ACACGGTGGTCTCTGATAGCGACC	GGTCGCTATCAGAGACCACCGTGT
89	GTGCAACGCCGAGGACTTCCATCA	TGATGGAAGTCCTCGGCGTTGCAC
90	TCGGTGCCTGATAGCCATTCCGAT	ATCGGAATGGCTATCAGGCACCGA
91	TGAAATACCACACAGCCAATTGGC	GCCAATTGGCTGTGTGGTATTTC
92	GCATCGTGTACATGACTGCCGCGA	TCGCGGCAGTCATGTACACGATGC
93	CAGTGTTCTAACGGCGCGCGTGAA	TTACGCGCGCCGTTAGAACACTG
94	CGCTTGCAACGTTGCACCTACTCT	AGAGTAGGTGCAACGTTGCAAGCG
95	CGAAAACTAGTGGGCTCGCCGCG	CGCGGCGAGCCCACTAGTTTTTCG

Serial No.: 09/940,185

Filed: August 27, 2001

96	CTTTCAGGGGAACTGCCGGAGTCG	CGACTCCGGCAGTTCCCCTGAAAG
97	TTGTGGCCTTCTTGTAAGGCACG	CGTGCCTTTACAAGAAGGCCACAA
98	TCCACGAACGGCGACCCGTTGTCT	AGACAACGGGTGCGCGTTCGTGGA
99	CGACCTTGACGAAACCTAACGAG	CTCGTTAGGTTTCGTGCAAGGTCG
100	GTGCAGCTTCACGAGCCAGCCTGA	TCAGGCTGGCTCGTGAAGCTGCAC
101	CGCTTTCGTGCGAATAGACGATGA	TCATCGTCTATTTCGCACGAAAGCG
102	TGCGCTTACAGGCTCCTAGTGGTC	GACCACTAGGAGCCTGTAAGCGCA
103	CACGCGCTTAGTCGCGATCGCATA	TATGCGATCGCGACTAAGCGCGTG
104	CGGAGGGAGGGAGCTAGCCTTCGA	TCGAAGGCTAGCTCCCTCCCTCCG
105	GCATCCGGCCTGTTGATGACGCCT	AGGCGTCATCAACAGGCCGGATGC
106	AGGCCAATCGATCTTATTGCCGAG	CTCGGCAATAAGATCGATTGGCCT
107	CCTTCCAATGATTGCATACGCCCA	TGGGCGTATGCAATCATTGGAAGG
108	AACACTTGATCAGGCGGGTCGTCT	AGACGACCCGCTGATCAAGTGTT
109	TGGAATCAAGGCCGTAAAGGACAG	CTGTCCTTTACGGCCTTGATTCCA
110	GCTCCCGTAACCTGTCCACCAAGTG	CACTGGTGGACAGGTTACGGGAGC
111	AGTGGTGAATGGCCGCTACCCTGA	TCAGGGTAGCGGCCATTCACTACT
112	TGTTGAAGCGAGCTAAAACGGCCA	TGGCCGTTTTAGCTCGCTTCAACA
113	CAGCGCTCCAGAATTGACAGCAAT	ATTGCTGTCAATTCTGGAGCGCTG
114	AAGGTGGTGCCATTCAATTTGGCTA	TAGCCAAATGAATGGCACCACCTT
115	CGTTAAACCGCAATCCGTTCCGCT	AGCCGAACGGATTGCGGTTTAACG
117	CACGAGATACCGGCGTAAGGGTGG	CCACCCTTACGCCGGTATCTCGTG
118	CTACGGCAAACGTGTGGAATGGGT	ACCCATTCCACACGTTTGCCGTAG
119	GTAGGGCGATGACGGGCGAACTAC	GTAGTTCGCCCCGTCATCGCCCTAC
120	AATCGACCTCCGCACACATTTCGA	TGCGAATGTGTGCGGAGGTTCGATT
121	GAGTCAGCATGGCGGCGGAGATTC	GAATCTCCGCCGCCATGCTGACTC
122	AGATAAAGACGCTGGCAACACGGG	CCCGTGTTGCCAGCGTCTTTATCT
123	GGTACCTCAACGCGAACCCTTGT	ACAAGTGGTTCGCGTTGAGGTACC
124	AAGCGATGGCTACCCAAGAGCGAT	ATCGCTCTTGGGTAGCCATCGCTT
125	AGAGCTTATGCAGAACCAGGCGCC	GGCGCCTGGTTCTGCATAAGCTCT
126	ATCGGTCTCACGCAGGGTTGATA	TATCCAACCCTGCGTGAGACCGAT
127	TAGGTTGCCCGCCAGAAGAAACAT	ATGTTTCTTCTGGCGGGCAACCTA
128	CGGTGCTGTTGCAAAAGCCTGTAG	CTACAGGCTTTTGCAACAGCACCG
129	TGATGAAAGTTTGCGGCAGGACAC	GTGTCCTGCCGCAAACCTTTCATCA
130	GTTGAGTGCAGGATGCAGCGATAG	CTATCGCTGCATCCTGCACTCAAC
131	AACATTGCGCGGTCCACCAGGGTT	AACCCTGGTGGACCGCGCAATGTT
132	GGGCAGTTAGAGAGGGCCAGAAGT	ACTTCTGGCCCTCTCTAACTGCCC
133	TCGAGCTGGTCCCCGTGAACGTGT	ACACGTTACGGGGACCAGCTCGA
134	GTCTTGGGGGCCGCTTAGTGAAAA	TTTTCACTAAGCGGCCCCCAAGAC

A9
Cont'd

Serial No.: 09/940,185
 Filed: August 27, 2001

A9

135	ACTGTTGGCTTGCTCTCATGTCCA	TGGACATGAGAGCAAGCCAACAGT
136	AGGACCATTTCGGAAGGCGAAGATA	TATCTTCGCCTTCCGAATGGTCCT
137	CTTGGGAGGCATCCGCTATAAGGA	TCCTTATAGCGGATGCCTCCCAAG
138	AATAAACGGAACGCACCGCTACAG	CTGTAGCGGTGCGTTCGGTTTATT
139	TTGTACGTGCGGTCCCCATAAGCA	TGCTTATGGGGACCGCACGTACAA
140	CGCACCAAACCTGAGTTTCCAGAC	GTCTGGGAAACTCAGTTTGGTGCG
141	ACCTGATCGTTCCCTATTGGGAA	TTCCAATAGGGGAACGATCAGGT
142	GGAACAGAGGCGAGGGGACTGAGC	GCTCAGTCCCCTCGCCTCTGTTCC
143	CCCTGCCTTGCGGTGTCGGCTTAT	ATAAGCCGACACGCCAAGGCAGGG
144	ACTCTGACACGCCAACTCCGGAAG	CTTCCGGAGTTGGCGTGTGAGAGT
145	CTGACGGTTTTTCATTGCGCGTGCC	GGCACGCCGAATGAAAACCGTCAG
146	TGCGGTGGTTCATTGAGCTGGCC	GGCCAGCTCCAATGAACCACCGCA
147	GCATGGCCAACTAGTGACTCGCAA	TTGCGAGTCACTAGTTGGCCATGC
148	AGGCCGTAAAGCGAATCTCACCTG	CAGGTGAGATTGCTTTACGGCCT
149	CGAATATTATGCCGAGAATCCGCG	CGCGGATTCTCGGCATAATATTCCG
150	ACAGACGAGCTCCCAACCACATGA	TCATGTGGTTGGGAGCTCGTCTGT
151	GGACGGTTTGTGCTGGATTGTCTG	CAGACAATCCAGCACAAACCGTCC
152	AAAGGCTATTGAGTTGGTTGGGCG	CGCCCAACCAACTCAATAGCCTTT
153	GATGGCCTATTTCGGAGATCGGGCC	GGCCCGATCTCCGAATAGGCCATC
154	GATCCAGTAGGCAGCTTCATCCCA	TGGGATGAAGCTGCCTACTGGATC
155	AATAACTCGCGCGGGTATGCTTCT	AGAAGCATACCCGCGCGAGTTATT
156	GGAGGAGGTTTGTCTCGGAAAGCA	TGCTTTCCGAGACAAACCTCCTCC
157	CTTTGGTATGGCACATGCTGCCCCG	CGGGCAGCATGTGCCATACCAAAG
158	AGAAAGGCTCGAGCAACGGGAACT	AGTTCCCGTTGCTCGAGCCTTTCT
159	AATCTACCGCACTGGTCCGCAAGT	ACTTGCGGACCAGTGCGGTAGATT
160	CGTGGCGGCCACAGTTTTTGGAGG	CCTCCAAAACTGTGGCCGCCACG
161	TTGCAGTTCAATCCATACGCACGT	ACGTGCGTATGGATTGAACTGCAA
162	GGCCCAAAGCCCCAGACCATTTTA	TAAAATGGTCTGGGGCTTTGGGCC
163	CGCCTGTCTTTGTCTCCGGACAAT	ATTGTCCGGAGACAAAGACAGGCG
164	TGAGGCAACAGGGGCCAAAACTA	TAGTTTTTGGCCCCTGTTGCCTCA
165	AGCGGAAGTAGTCCTCGGCTCGTC	GACGAGCCGAGGACTACTTCCGCT
166	GGCCCCAAGGCTTAGAGATAGTGG	CCACTATCTCTAAGCCTTGGGGCC
167	GCACGTGAAGTTTAACCGCGATTTC	GAATCGCGGTTAACTTCACGTGC
168	AGCGGCAGAAACGTTCTTGACGG	CCGTCAAGGAACGTTTCTGCCGCT
169	TCGTGAGCAGACGAGATTGCACG	CGTGCAATCTCGTCTGCTCGACGA
170	TCTTTGCCGCGTAACTGACTGCTT	AAGCAGTCAGTTACGCGGCAAAGA
171	TTTATGTGCCAAGGGGTTAACCGA	TCGGTTAACCCTTGGCACATAAA
172	TGTTACTGTGGTTCACGGCAGTCC	GGACTGCCGTGAACCACAGTAACA

Serial No.: 09/940,185
 Filed: August 27, 2001

A9

173	CGCGCCTCGCTAGACCTTTTATTG	CAATAAAAGGTCTAGCGAGGCGCG
174	ACAAATGCGTGAGAGCTCCCAACT	AGTTGGGAGCTCTCACGCATTTGT
175	CGCGCAGATTATAGACCCGAATGT	ACATTCGGGTCTATAATCTGCGCG
176	CAAATAACGCCGCTGAATCGGCGT	ACGCCGATTCAGCGGCGTTATTTG
177	CCTTCGTGCATCGGTGATGATGTT	AACATCATCACCGATGCACGAAGG
178	TGAACACGAGCAACACTCCAACGC	GCGTTGGAGTGTTGCTCGTGTTCA
179	CAGCAGATCCTTCGTAGCGGTCGT	ACGACCGCTACGAAGGATCTGCTG
180	GGAACCTGGTGAGTTGTGCCTCAT	ATGAGGCACAACCTCACCAGGTTCC
181	TCATAAGCGACAATCGCGGGCTTA	TAAGCCCGCGATTGTGCGCTTATGA
182	CCCAACGTCACTGAAGCTCACAGT	ACTGTGAGCTTCAGTGACGTTGGG
183	TGTCAGAGCCCGCGACTCAGACGG	CCGTCTGAGTCGCGGGCTCTGACA
184	TACACGAAGCCTCTCCGTGGTCCA	TGGACCACGGAGAGGCTTCGTGTA
185	CTCAGAAGTCCTCGGCGAACTGGG	CCCAGTTCGCCGAGGACTTCTGAG
186	ATCCTTTTATCTACTCCGCGGCGA	TCGCCGCGGAGTAGATAAAAGGAT
187	AGGCGTGCAACAACAGGATAAACC	GGTTTATCCTGTTGCTGCACGCCT
188	ACTCTCGAGGGAGTCTCTGGCACA	TGTGCCAGAGACTCCCTCGAGAGT
189	TTGCCAGGTCCATCGAGACCTGTT	AACAGGTCTCGATGGACCTGGCAA
190	TCCACTATAACTGCGGGTCCGTGT	ACACGGACCCGCGAGTTATAGTGGA
191	GCCCAGTCGGCTCTAACAAGTTCTG	CGAACTTGTTAGAGCCGACTGGGC
192	CGGAACGGATAATCGGCGTCAGGT	ACCTGACGCCGATTATCCGTTCCG
193	TAAAATAAGCGCCTGGCGGGAGGA	TCCTCCCGCCAGGCGCTTATTTTA
194	GCGCACTCGTGAAACCTTTCTCGC	GCGAGAAAGGTTTCACGAGTGCGC
195	AGTTTGCCAGGTACTGGCAAGTGC	GCACTTGCCAGTACCTGGCAAACCT
196	ACAACGAGGGATGTCCAGCGGCAT	ATGCCGCTGGACATCCCTCGTTGT
197	TTCGCAGCACCCGCTAGGTACAGT	ACTGTACCTAGCGGGTGCTGCGAA
198	TAACCCGATTTTTGCGACTCTGCC	GGCAGAGTCGCAAAAATCGGGTTA
199	CGTCGCATTGCAAGCGTAGGCTTG	CAAGCCTACGCTTGCAATGCGACG
200	GAGCTGACGTCACCATCAGAGGAA	TTCCTCTGATGGTGACGTCAGCTC
201	GGAGGCTGGGGGTGCGCCTTAAGT	ACTTAAGCGCGACCCCCAGCCTCC
202	TTGTGGGAACCGCACTAGCTGGCT	AGCCAGCTAGTGCGGTTCCACAA
203	CCCTCGCACTGTGTTACCCCTCTT	AAGAGGGTGAACACAGTGCGAGGG
204	TCATTGACTCGAATCCGCACAACG	CGTTGTGCGGATTCGAGTCAATGA
205	ACAGGGGTTGGCCTTCGTACGTAC	GTACGTACGAAGGCCAACCCCTGT
206	AGGCCGTGCAACATCACACAGGAT	ATCCTGTGTGATGTTGCACGGCCT
207	GGGCCGTGGTCACGTAATATTGGC	GCCAATATTACGTGACCACGGCCC
208	GCGCGGACATGAAACGACAAGGCC	GGCCTTGTCGTTTCATGTCCGCGC
209	CTTATTGGGTGCCGGTGTGCGGATT	AATCCGACACCGGCACCCAATAAG
210	GGGGCGGTTACCAAAAAATCCGAT	ATCGGATTTTTTGGTAACCGCCCC

Serial No.: 09/940,185
 Filed: August 27, 2001

211	GCTAAAGCGTGCTCCGTAAGTCC	GGCAGTTACGGAGCACGCTTTAGC
212	ATCTCATGCATCTCGGTTCTCGT	ACGACGAACCGAGATGCATGAGAT
213	ACGAAAAAAGTGTGCGGATCCCCT	AGGGGATCCGCACACTTTTTTCGT
214	CCAAGTACACCGCACGCATGTTTA	TAAACATGCGTGCGGTGTACTTGG
215	ATCGTGCGTGAGTGTGCGCATCTA	TAGATGCGGACACTCCACGCACGAT
216	TCCAGATACCGCCCCGAAGTTTGA	TCAAAGTTCCGGGGCGGTATCTGGA
217	TCTGCTGGCAGCACGTGAAGTGGC	GCCACTTCACGTGCTGCCAGCAGA
218	TTGAAATTGCTCTGCCGTCAGTCA	TGACTGACGGCAGAGCAATTTCAA
219	AGTCAGGCGAGATGTTGAGGACGC	GCTGCCTGAACATCTCGCCTGACT
220	ACAAGCCGACGTTAAGCCCGCCCA	TGGGCGGGCTTAACGTCGGCTTGT
221	CCCTAATGAGGCCAGTAACCTGCA	TGCAGGTTACTGGCCTCATTAGGG
222	GTGAGACACACATCCCCTCCAATG	CATTGGAGGGGATGTGTGTCTCAC
223	CGACGGATGCAGAGTTGAGTGGTC	GACCACTGAACTCTGCATCCGTCG
224	CCCGCATGCCTGGCGGTATTACAA	TTGTAATACCGCCAGGCATGCGGG
225	TTAGCAAAGCGGCGCCGTTAGCAA	TTGCTAACGGCGCCGCTTTGCTAA
226	CCCGACACGGGTCAGCGTAATAAT	ATTATTACGCTGACCCGTGTGCGG
227	GCGACGGCCCTGAGGTATGTGCTC	GACGACATACCTCAGGGCCGTGCG
228	CAAAAGTGTGTTCCCTTGCGCTTG	CAAGCGCAAGGGAACACACTTTTG
229	TCTCGAAGCACAGCCCGGTTATTG	CAATAACCGGGCTGTGCTTCGAGA
230	ATGCTAACCGTTGGCCATGGAAGT	AGTTCCATGGCCAACGGTTAGCAT
231	CTTGCGGAGTGTTAGCCCAGCGGT	ACCGCTGGGCTAACACTCCGCAAG
232	TGCTCCCTAGGCGCTCGGAGGAGT	ACTCCTCCGAGCGCCTAGGGAGCA
233	CCAATGCCTTTGAGTAAGCGATGG	CCATCGCTTACTCAAAGGCATTGG
234	AGCAGATAACGTCCCAATGACGCC	GGCGTCATTGGGACGTTATCTGCT
235	TTGACCATTACGTGTTGCGCCCAT	ATGGGCGCAACACGTAATGGTCAA
236	TCGCGTATTTGCGGAATTCGTCTG	CAGACGAATTCGCAAATACGCGA
237	CTGCGTGTCAACAATGTCCCGCAG	CTGCGGGACATTGTTGACACGCAG
238	TCTGGTGCCACGCAAGGTCCACAG	CTGTGGACCTTGCGTGCCACACAGA
239	CTCCGGGAGGTCACTTAATTGCGG	CCGCAATTAAGTGACCTCCCGGAG
240	TTTTCGTGATTGCCCGGAGGAGGC	GCCTCCTCCGGGCAATCACGAAAA
241	TCGGGATGTAGCTGGGGCTACCGG	CCGGTAGCCCCAGCTACATCCCGA
242	CGAGCCAACGCAAACACGTCCTTG	CAAGGACGTGTTTGCGTTGGCTCG
243	GCAAAGCCTTTGTGGGGCGGTAGT	ACTACCGCCCCACAAAGGCTTTGC
244	ATTCGACCGGAAATGAGGTCTTCG	CGAAGACCTCATTTCCGGTCAAT
245	TTCGCTTGCTGAGTTGCTCTGTTT	GAACAGAGCAACTCAGCAAGCGAA
246	CGCGTGAAGACCCCATCCCGAGT	ACTCGGGAATGGGGTCTTCACGCG
247	AACCGTATTGCGGGTCACTTGTTG	CCACAAGTGACCGCGAATACGGTT
248	GGGGCCAACCGTTTCGAGGCGTAT	ATACGCCTCGAAACGGTTGGCCCC

A9

Serial No.: 09/940,185

Filed: August 27, 2001

249	TTCGGCTGGCAGTCCAAACGGCTT	AAGCCGTTTGGACTGCCAGCCGAA
250	GGGTGTGGTTAGAATGCACGGTTC	GAACCGTGCATTCTAACCACACCC
251	GCGAGGACCGAACTAGACAAACGG	CCGTTTGTCTAGTTCGGTCCTCGC
252	ACGCACGCGTGACCGAAGTTGCTG	CAGCAACTTCGGTCACGCGTGCGT
253	TAAAAGGTCGCTTTGAAAGGGGGA	TCCCCCTTTCAAAGCGACCTTTTA
254	TGCGATCGCTAACTGCTGGGACAA	TTGTCCCAGCAGTTAGCGATCGCA
255	GGAGGTATAAGCGGAGCGGCCTCA	TGAGGCCGCTCCGCTTATACCTCC
256	ATGCTGACATGTCGTGCACCTCGT	ACGAGGTGCACGACATGTCAGCAT
257	TGTGGTTAAAGCGTCCGTTCAACG	CGTTGAACGGACGCTTTAACCACA
258	CGTTCACACCGGCGTAAGCTGCGT	ACGCAGCTTACGCCGGTGTGAACG
259	CCTATCCCGGCGAGAATTCTGTG	CACAGAAGTTCTCGCCGGGATAGG
260	GTCTGCACTCACGCAGCGGAGGGA	TCCCTCCGCTGCGTGAGTGCAGAC
261	GCACGAGTTGGTGCTCGGCAGATT	AATCTGCCGAGCACCAACTCGTGC
262	AACGTGCGACGACACACGTTTCGTC	GACGAACGTGTGTCTGTGCGACGTT
263	ATGCGCGCTTATCCTAGCATGGTC	GACCATGCTAGGATAAGCGCGCAT
264	TCACGTTTTTCGTCTCGACATGAGG	CCTCATGTGAGACGAAAACGTGA
265	TGTGCCTCATCCTTAGGATACGGC	GCCGTATCCTAAGGATGAGGCACA
266	AGGTGGTGTGGGTCAACCGCTTTA	TAAAGCGGTTGACCCACACCACCT
267	CTGGATCGAAGGGACTGCAAGCTC	GAGCTTGCAGTCCCTTCGATCCAG
268	TAGATCAACTCGCGTACGCATGGA	TCCATGCGTACGCGAGTTGATCTA
269	GATCCTGCGGAGAAGAGAGTGCAG	CTGCACTCTCTTCTCCGCAGGATC
270	TACGTGTGGAGATGCCCCGAACCG	CGGTTCGGGGCATCTCCACACGTA
271	GCGCTATGTCAATCGTGGGCGTAG	CTACGCCACGATTGACATAGCGC
272	AGCGAGGTTTCTAGCGTCGACACC	GGTGTGACGCTAGAAACCTCGCT
274	ACCCAGGTTTTGCCGTTGTGGAAT	ATTCCACAACGGCAAAACCTGGGT
275	CCCTGTTAACGGCTGCGTAGTCTC	GAGACTACGCAGCCGTTAACAGGG
276	AGGCCGATTTACCCGCCAATTGC	GCAATTGGCGGGTGAAATCGGCCT
277	GAGCCCTCACTCCTTGCCCTTTGA	TCAAAGGGCAAGGAGTGAGGGCTC
278	GGGTGGACATCCGCCTCGCAGTCA	TGACTGCGAGGCGGATGTCCACCC
279	GATGGCTGAGAACCGTGCTACGAT	ATCGTAGCACGGTTCTCAGCCATC
280	TCGACGTTAGGAGTGCTGCCAGAA	TTCTGGCAGCACTCCTAACGTGCA
281	CGAATGGGTCTGGACCTTGCTAG	CTATGCAAGGTCCAGACCCATTG
282	GTGCACCAGACATTGCAACTCGGA	TCCGAGTTGCAATGTCTGGTGCAC
283	AGAGGCCCGTATATCCCATCCAT	ATGGATGGGATATACGGGGCCTCT
284	AACGCCTGTTTCAGAGCATCAGCGG	CCGCTGATGCTCTGAACAGGCGTT
285	AAGGCTCAACACGCCTATGTGCGC	GCGCACATAGGCGTGTTGAGCCTT
286	AGTCCGTGTTGCCAGATTGGCTCG	CGAGCCAATCTGGCAACACGGACT
287	ATGTCCCATGTAAAGACGCGTGTG	CACACGCGTCTTTACATGGGACAT

Serial No.: 09/940,185

Filed: August 27, 2001

288	ATGGAGTCTGCTCACGCCCAAAGG	CCTTTGGGCGTGAGCAGACTCCAT
289	CGGCCTCCAACAAGGAGCACTAAC	GTTAGTGCTCCTTGTGGAGGCCG
290	CAGAGCCGTGGCAACATTGCGAGC	GCTCGCAATGTTGCCACGGCTCTG
291	TCATTTGAATGAGGTGCGCACCGG	CCGGTGCGCACCTCATTCAAATGA
292	GACGTACCGGAAGCGCCGTATAAA	TTTATACGGCGCTTCCGGTACGTC
293	ATGCGAGCAATGGGATCCGGATTC	GAATCCGGATCCCATTGCTCGCAT
294	AGAGTGAGGCCTCCCTGACCAGTG	CACTGGTCAGGGAGGCCTCACTCT
295	CGCACCGTAAGTAGATTTGCCGCG	GCGGGCAAATCTACTTACGGTGCG
297	TGAACCTTTGAGCACGTCGTGCGC	GCGCACGACGTGCTCAAAGGTTCA
298	TCCGCCTTTTTTGTTACCTCGAAG	CTTCGAGGTAACCAAAAAGGCGGA
299	GAACGCCAACGGCACTAACACATC	GATGTGTTAGTGCCGTTGGCGTTC
300	CCGACAGCAGCCAAGACGTCCCAG	CTGGGACGTCTTGGCTGCTGTCCG
302	CATAAAAAACCTGGGGCTCTGCG	CGCAGAGCCCCAGGTTTTTTTATG
303	TGCCAACTGTGCAGACCGGACTTA	TAAGTCCGGTCTGCACAGTTGGCA
304	GGCGAAAGAGCGAAACCGGCTCGT	ACGAGCCGGTTTCGCTCTTTCGCC
305	GGGATGCGTATTTTAGCGAACACG	CGTGTTGCTAAAATACGCATCCC
306	TGGGATTCAGCGACCAGTACGCGA	TCGCGTACTGGTCGCTGAATCCCA
307	CCCGATATTCGCCCGGCCTATTCG	CGAATAGGCCGGGCGAATATCGGG
308	CGAGAAGATGCCTCACGCAACCAA	TTGGTTGCGTGAGGCATCTTCTCG
309	AACCTTGACCCGTGGATGACGCTA	TAGCGTCATCCACGGGTCAAGGTT
310	GGCTAGACGATGGATACCCGTGCC	GGCACGGGTATCCATCGTCTAGCC
311	GCCTCTTCTCGACGATGCGATTTT	AAAATCGCATCGTCGAGAAGAGGC
312	GCTTCCGGATGAACGGGATGGTTG	CAACCATCCCGTTCATCCGGAAGC
313	CCCTCCATGTTCTTCGAACGGTTT	AAACCGTTCGAAGAACATGGAGGG
314	TTGATGGGCGGCAATGCTCTTGCT	AGCAAGAGCATTGCCGCCATCAA
315	ATTGTGAGATGCGCCAAATTCCCC	GGGGAATTTGGCGCATCTCACAAT
316	TCAGCACAGCCAGACGGTCAACTT	AAGTTGACCGTCTGGCTGTGCTGA
317	ACTCCACTCCTCGGTGGCAAATA	TAGTTTGCCACCGAGGAGTGAGT
318	TCTGGGCATGCCTGGACGGAGACG	CGTCTCCGTCCAGGCATGCCCAGA
319	TCTCAACTCCGGTACGACGAAACA	TGTTTCGTGCTACCGGAGTTGAGA
320	TTGCGTGGTCAAAGGCGCAACGTG	CACGTTGCGCCTTTGACCACGCAA
321	AGACAGCGATCCGCGGCTCATGAT	ATCATGAGCCGCGGATCGCTGTCT
322	CGCGTCTCTAACTGAGAGCAGCCA	TGGCTGCTCTCAGTTAGAGACGCG
323	AGGCGCACATGTACGGACATTGAG	CTGAATGTCCGTACATGTGCGCCT
324	GATGAGTGGCACGTGGTGTGTAA	TTACACACCGACGTGCCACTCATC
325	TGATCCATATTGTCGGACGTTGCG	CGCAACGTCCGACAATATGGATCA
326	ACCTGCCGGGAGTTCATAGGCTAG	CTAGCCTATGAACTCCCGGCAGGT
327	AGCATTGGCGTTTTTCCGCAACGA	TCGTTGCGGAAAAACGCCAATGCT

Serial No.: 09/940,185

Filed: August 27, 2001

328	GGTAATATTCAGCGCGACCGCTCA	TGAGCGGTCGCGCTGAATATTACC
329	ATAGCGTACGACGAGGTGACGCGC	GCGCGTCACCTCGTCGTACGCTAT
331	TAGGTCACGATGCGTTTGACGCTA	TAGCGTCAAACGCATCGTGACCTA
332	ACTGCCCCGTACCTCTGGTTCTGGC	GCCAGAACCAGAGGTACGGGCAGT
334	CCTTTGGCCTGAAGTTGTCGTAGC	GCTACGACAACCTTCAGGCCAAAGG
335	GTGCCCCACGAGCGTATCGTTGTA	TACAACGATACGCTCGTGGGGCAC
336	AGGCGCTACGTGGGCCTGGAGCAA	TTGCTCCAGGCCACGTAGCGCCT
337	GGGTGCTACCATTGCATTAGTCCG	CGGACTAATGCAATGGTAGCACCC
338	ACCACGCGCGTACGTGTAACCGAG	CTCGGTTACACGTACGCGCGTGGT
339	CCATGATGCATTGGGTGCATTTAG	CTAAATGCACCCAATGCATCATGG
340	GGTCCGGCCCTACGAAACGTTCTGA	TCGAACGTTTCGTAGGGCCGGACC
341	CCGTGTGGCTGGAGATTCGTGTGA	TCACACGAATCTCCAGCCACACGG
342	GTTAGGGCGACGCATATTGGCACA	TGTGCCAATATGCGTCGCCCTAAC
343	GGGTACGTCAGGTGCGTTAGGATC	GATCCTAACGCACCTGACTGACCC
344	GCCGTGAAGTCGAATGCAGATCGA	TCGATCTGCATTGACTTCACGGC
345	GCCACCACCCAGTGCATTACGGTA	TACCTGAATGCACTGGGTGGTGGC
346	GAGCTTAGTTTGCGGTCATCGGGC	GCCCGATGACCGCAAACCTAAGCTC
347	TGTTTGCCGCCATTAGGGAGTAAC	GTTACTCCCTAATGGCGGCAAACA
348	GCTCCGCTGGATGTGCCGTTTAG	CTAAACCGGCACATCCAGCGGAGC
349	CGGTAGCATGCGAGATCCCTGTTA	TAACAGGGATCTCGCATGCTACCG
350	CTACGCTCTACCAGTTGCCTGCGA	TCGCAGGCAACTGGTAGAGCGTAG
351	GTGCCTCCTGCTGTATTTGCCAAG	CTTGGCAAATACAGCAGGAGGCAC
352	TTGCGACTCGACTTGACGAGTAG	CTACTCGTCCAAGTCGAGTCGCAA
353	TCTGGGAGCTGTTTACTCCAGCCA	TGGCTGGAGTAAACAGCTCCCAGA
354	TGCACGCGGAACTCCCTTTACCAT	ATGGTAAAGGGAGTTCCGCGTGCA
355	TGGCAGCAAATGAATCGAAAGCAC	GTGCTTTCGATTCAATTGCTGCCA
356	AACTGGTGACGCGGTACAGCGAAG	CTTCGCTGTACCGCGTCACCAGTT
357	AGACGATTACGCTGGACGCCGTCG	CGACGGCGTCCAGCGTAATCGTCT
358	ATGCCCTCCTTCATGAAAGGGTT	AACCCTTTCCATGAAGGAGGGCAT
359	ATTCTCGGAGCGTATGCGCCAGAA	TTCTGGCGCATACGCTCCGAGAAT
360	ATAGCGGAGTTTGGGTACGCGAAC	GTTGCGGTACCCAAACTCCGCTAT
361	ACCTACGCATACCGCTTGGCGAGG	CCTCGCCAAGCGGTATGCGTAGGT
362	GATTACCTGAATGGCCAAGCGAGC	GCTCGCTTGGCCATTACAGTAATC
363	CCTGTTAGCATCACGGCGCTTAGG	CCTAAGCGCCGTGATGCTAACAGG
364	CGGAATGATGCGCTCGACAACGCT	AGCGTTGTCGAGCGCATCATTCCG
365	TGAGAGAGGCGTTGGTTAAGGCAA	TTGCCTTAACCAACGCCTCTCTCA
366	AAGCAGGCGAAGGGATACTCCTCG	CGAGGAGTATCCCTTCGCCTGCTT
367	TCACGACAGACGGGCCGAGATTAC	GTAATCTCGGCCCGTCTGTCTGTA

A9

Serial No.: 09/940,185

Filed: August 27, 2001

368	AAGCAATTTGGCCTCGTTTTGTGA	TCACAAAACGAGGCCAAATTGCTT
369	GCTGGTTGCGGTAGGATCGCATAT	ATATGCGATCCTACCGCAACCAGC
370	TTGTGAATCCGTTCTGTCCCCGAC	GTCGGGGACAGAACGGATTACAA
372	TGGGCTCCTCTGAGGCGAGATGGC	GCCATCTCGCCTCAGAGGAGCCCA
373	GGATAGAGTGAATCGACCGGCAAC	GTTGCCGGTTCGATTCACTCTATCC
374	TGCACCGAACGTGCACGAGTAATT	AATTACTCGTGACGTTCCGGTGCA
375	GCCAGTATTCTCGGGTGTTGGACG	CGTCCAACACCCGAGAATACTGGC
376	TCGCTACCTAAGACCGGGCCATAC	GTATGGCCCGGTCTTAGGTAGCGA
377	TGGCATTGACGAGCAGCAGTCAGT	ACTGACTGCTGCTCGTCAATGCCA
378	CGCGTCCCAGCGCCCTTGAGTAT	ATACTCCAAGGGCGCTGGGACGCG
379	ATGAAGCCTACCGGGCGACTTCGT	ACGAAGTCGCCCCGGTAGGCTTCAT
380	CCAGACAGATGGCCTGGAACCATG	CATGGTTCCAGGCCATCTGTCTGG
381	TGGCGTGGGACCATCTCAAAGCTA	TAGCTTTGAGATGGTCCCACGCCA
382	CCGCATGGGAACACGTGTCAAGGT	ACCTTGACACGTGTTCCCATGCGG
383	GCCCACTCGTCAGCTGGACGTAAT	ATTACGTCCAGCTGACGAGTGGGC
384	ATTACGGTCTGTATCCAGAAAGCG	CGCTTTCTGGATCACGACCGTAAT
385	TGCGAGGTGAGCACCTACGAGAGA	TCTCTCGTAGGTGCTCACCTCGCA
386	GGGCCGCATTCTTGATGTCCATTC	GAATGGACATCAAGAATGCGGCCC
387	CCTCGGATGTGGGCTCTCGCCTAG	CTAGGCGAGAGCCCACATCCGAGG
388	TAGGCATGTTGGCGTGAGCGCTAT	ATAGCGCTCACGCCAACATGCCTA
389	CGATACGAACGAGGATGTCCGCCT	AGGCGGACATCCTCGTTCGTATCG
390	TACGCCGGTTAGCACGGTGCGCTA	TAGCGCACCGTGCTAACCGGCGTA
391	CATACGATGTCCGGGCCGTGTGCG	GCGACACGGCCCGGACATCGTATG
392	ATCCGCAGTTGTATGGCGCGTTAT	ATAACGCGCCATACAACCTGCGGAT
393	GGGTAAGGGACAAAGATGGGATGG	CCATCCCATCTTTGTCCCTTACCC
394	ATTGGAGTGTTTTGGTGAATCCGC	GCGGATTCACCAAAACACTCCAAT
395	GAACCGAGCCAACGTATGGACACG	CGTGTCCATACGTTGGCTCGGTTC
396	GCCGTCAAGCTTAAGGTTTTGGGC	GCCCCAAACCTTAAGCTTGACGGC
397	ACCTGCTTTTGGGTGGGTGATATG	CATATCACCCACCCAAAAGCAGGT
398	AATCGTGGGCGCAGCAAACGTATA	TATACGTTTGCTGCGCCACGATT
399	GTCGCCGGATTGCTCAGTATAAGC	GCTTATACTGAGCAATCCGGCGAC
400	ACCCGTCGATGCTTCCTCCTCAGA	TCTGAGGAGGAAGCATCGACGGGT
401	ATCCGGGTGGGCGATACAAGAGAT	ATCTCTTGATCGCCCACCCGGAT
402	TTCCGCATGAGTCAGCTTTGAAAA	TTTTCAAAGCTGACTCATGCGGAA
403	GCAAAGTCCCACTGGCAAGCCGAT	ATCGGCTTGCCAGTGGGACTTTGC
404	CGACCTCGGCTTCATCGTACACAT	ATGTGTACGATGAAGCCGAGGTG
405	CTCATGAGCGCAGTTGTGCGTGAG	CTCACGCACAACCTGCGCTCATGAG
406	CAGATGAAGGATCCACGGCCGGAG	CTCCGGCCGTGGATCCTTCATCTG

Serial No.: 09/940,185

Filed: August 27, 2001

407	TCAAAGGCTCTTGGATACAGCCGT	ACGGCTGTATCCAAGAGCCTTTGA
408	TCCGCTAATTTCCAATCAGGGCTC	GAGCCCTGATTGGAAATTAGCGGA
409	ACGCACGGCGCTTTTGCCTTAATG	CATTAAGGCAAAAGCGCCGTGCGT
410	TGACAACGTCACAAGGAGCAGGAC	GTCCTGCTCCTTGTGACGTTGTCA
411	CTTAGTTGGGGCGCGGTATCCAGA	TCTGGATACCGCGCCCCCACTAAG
412	GCTCTAATGCCGTGGAGTCGGAAC	GTTCCGACTCCACGGCATTAGAGC
413	CCGATTACAAATTGACTGACCGCA	TGCGGTCAGTCAATTTGTAATCGG
414	AGACGTACGTGAGCCTCCCGTGTC	GACACGGGAGGCTCACGTACGTCT
415	AATGGAGCGATACGATCCAACGCA	TGCGTTGGATCGTATCGCTCCATT
416	GGAGGCGCTGTACTGATAGGCGTA	TACGCCTATCAGTACAGCGCCTCC
417	TGTTTTTGAATTGACCACACGGGA	TCCCGTGTGGTCAATTCAAAAACA
418	CATGTCTGGATGCGCTCAATGAAG	CTTCATTGAGCGCATCCAGACATG
419	GCCCGCTAATCCGACACCCAGTTT	AAACTGGGTGTGCGATTAGCGGGC
420	CCATTGACAGGAGAGCCATGAGCC	GGCTCATGGCTCTCCTGTCAATGG
421	GAATCACCGAATCACCGACTCGTT	AACGAGTCGGTGATTGCGGTGATTC
422	AACCAGCCGCAGTAGCTTACGTCTG	CGACGTAAGCTACTGCGGCTGGTT
423	TTTTCTGAGGGACACGCGGGCGTT	AACGCCCGCGTGTCCCTCAGAAAA
424	GGTGCTCCGTTTGTATCGATCCTCC	GGAGGATCGATCAAACGGAGCACC
425	CCGCTTAGGCCATACTCTGAGCCA	TGGCTCAGAGTATGGCCTAAGCGG
426	TAAGACATACCGACGCCCTTGCCT	AGGCAAGGGCGTCCGTATGTCTTA
427	GTTCCCGACGCCAGTCATTGAGAC	GTCTCAATGACTGGCGTCGGGAAC
428	TAAAAGTTTCGCGGAGGTCGGGCT	AGCCCGACCTCCGCGAAACTTTTA
429	CGGTCCAGACGAGCTGAGTTCGGC	GCCGAACTCAGCTCGTCTGGACCG
430	CGGCGTAGCGGCTACGGACTTAAA	TTTAAGTCCGTAGCCGCTACGCCG
431	GCTTGATGCCCATGCGGCAAGGT	ACCTTGCCGCATGGGCATCCAAGC
432	AGCGGGATCCCAGAGTTTCGAAAA	TTTTCGAAACTCTGGGATCCCGCT
433	GAGCTTGAGAGCGAGGTCATCCTC	GAGGATGACCTCGCTCTCAAGCTC
434	GCATCGGCCGTTTTGACCATATTC	GAATATGGTCAAAACGGCCGATGC
435	CATAGCGCTGCACGTTTCGACCGC	GCGGTCGAAACGTGCAGCGCTATG
436	ACCCGACAACCAACCAATTCAAAAA	TTTTTGAATTGGTGGTTGTGCGGT
437	GCGAACAATCATAAGAGCGCCCTG	CAGGGCGCTCTTATGAGTGTTTCGC
439	CCGCCGAGTGTAGAGAGACTCCGA	TCGGAGTCTCTCTACACTCGGCGG
440	GACATCGGGAGCCGGAACATGAG	CTCATGTTTCCGGCTCCCGATGTC
441	TCGTGTAGACTCGGCGACAGGCGT	ACGCCTGTGCGCGAGTCTACACGA
442	ATGCGCATATACTGACTGCGCAGG	CCTGCGCAGTCAGTATATGCGCAT
443	ACAAGCGAACCCGAGTTTTGATGA	TCATCAAAACTCGGGTTCGCTTGT
444	GCATGAGACTCCGCGAAGACATGT	ACATGTCTTCGCGGAGTCTCATGC
445	TCCTACATGTCGCGTCACGATCAC	GTGATCGTGACGCGACATGTAGGA

Serial No.: 09/940,185
 Filed: August 27, 2001

446	GACCGATCGCGAAGTCGTACACAT	ATGTGTACGACTTCGCGATCGGTC
447	GTCGCCAGGACTGGGCCGATGTGA	TCACATCGGCCAGTCCTGGCGAC
448	ACCGATAAGACTTGCATCCGAACG	CGTTCGGATGCAAGTCTTATCGGT
449	TCCATAACCAGTCCGAAGTGCCGG	CCGGCACTTCGGACTGGTTATGGA
450	ACGCGCCCTGCATCTCGTATTAA	TTAAATACGAGATGCAGGGCGCGT
451	AGACCGCATCAATTGGCGCGTACC	GGTACGCGCCAATTGATGCGGTCT
452	AGAGGCTTGGCAAGTAGGGACCCT	AGGGTCCCTACTTGCCAAGCCTCT
453	GCAATGGACGCCAGACGATACCGG	CCGGTATCGTCTGGCGTCCATTGC
454	GCTGGACTTAGTCGTGTTGCGCGG	CCGCCGAACACGACTAAGTCCAGC
456	AGGCATCGTGCCGGATTGCTCCCT	AGGGAGCAATCCGGCACGATGCCT
457	TGCGCATGTGCGACGTTGAACAAAG	CTTTGTTCAACGTGACATGCGCA
459	TTCGGGTACATCCGATGCCATAC	GTATGGCATCGGATGTGACCCGAA
460	ACCCATCGCCGAAAGCGATGTTG	CAACATCGCTTTCCGGCGATGGGT
461	AAGCGCTGACTCGGCTAAGAAATCA	TGATTCTTAGCCGAGTCAGCGCTT
462	ACTTCCAAGTCCTTGACCGTCCGA	TGGACGGTCAAGGACTTGAAGT
463	TCTCAATATTCCCGTAGTCGCCCA	TGGGCGACTACGGGAATATTGAGA
464	AACAGTTCCTCTTTTTCTGGCGC	GCGCCAGGAAAAAGAGGAAGTGT
465	CGTCCTCCATGTTGTCACGAACAG	CTGTTCGTGACAACATGGAGGACG
466	TGCGCAGACCTACCTGTCTTTGCT	AGCAAAGACAGGTAGGTCTGCGCA
467	ATGGACGGCTTCGCAGTCCTCCTT	AAGGAGGACTGCGAAGCCGTCCAT
468	TGAACGCTTTCTATGGGCCACGTA	TACGTGGCCCATAGAAAGCGTTCA
469	TGAACCCTGCCGCGAGCGATAACC	GGTTATCGCTCGCGGCAGGGTTCA
470	GTTCTTGCGCGATGAATCAGGACC	GGTCCTGATTCATCGCGCAAGAAC
471	AGGGTACGTGTGCGAGCTTCGCGT	ACGCGAAGCTGCGACACGTACCCT
472	ACCCTTGCTCCGCCATGTCTCTCA	TGAGAGACATGGCGGAGCAAGGGT
473	GGGACAAGGATTGAAGCTGGCGTC	GACGCCAGCTTCAATCCTTGTCCC
474	TGTCGTTGCTCCCGAGTACCATTG	CAATGGTACTCGGGAGCAACGACA
475	GTTGTCCGAGACGTTTGTGTCAGC	GCTGACACAAACGTCTCGGACAAC
477	GCTGGTGAACACTCACGAACCGCT	AGCGGTTCTGTGAGTGTTACCCAGC
478	GCAGACAGGGCAAATCGGTGCAAA	TTTGCACCGATTTGCCCTGTCTGC
479	CCCATCACAACGAGTGGCGACTTT	AAAGTCGCCACTCGTTGTGATGGG
480	GCTTCTACAGCTGGCGTGCTAGCG	CGCTAGCACGCCAGCTGTAGAAGC
481	GAATGTGTGCCGACCATTCTAGCC	GGCTAGAATGGTCTGGCACACATTC
482	CCAGCGGAAGTTAGAGCTCTGTGG	CCACAGAGCTCTAACTTCCGCTGG
483	TTTTTACCGACCACTCCATGTCGG	CCGACATGGAGTGGTCGGTAAAAA
484	GCGGCTATGTGATGACGGCCTAGC	GCTAGGCCGTCTACATAGCCGC
485	AGTACACGGGCGTGTTAGCGCTCC	GGAGCGCTAACACGCCCGTGTACT
486	TCCTGTGTGGTGGCGCACTCCAC	GTGGGAGTGCGCCACCACACAGGA

A9

Serial No.: 09/940,185

Filed: August 27, 2001

487	CCAAC TAACCAATCGCGCGGATGA	TCATCCGCGCGATTGGTTAGTTGG
488	AGTGAGTGACCAAGGCAGGAGCAA	TTGCTCCTGCCTTGGTCACTCACT
489	CATCTTTCGCGGAGTTTATTGCGG	CCGCAATAAACTCCGCGAAAGATG
490	CTTCGTCCGGTTAGTGCGACAGCA	TGCTGTGCGACTAACC GGACGAAG
491	CTCACGAAAACGTGGGCCCCGAAAT	ATTTCTGGGCCCCACGTTTTCTGTGAG
492	CGCAGCAGCTGAACTCTAGCATTG	CAATGCTAGAGTTCAGCTGCTGCG
493	AGGAGACATACGCCCCAAATGGTGC	GCACCATTTGGGCGTATGTCTCCT
494	ATTGAGAACTCGTGCGGGAGTTTG	CAAAC TCCCGCACGAGTTCTCAAT
495	CTCTTTGTAGGCCCAGGAGGAGCA	TGCTCCTCCTGGGCCTACAAAGAG
496	GCCGCAGGGTCGATAATTGGTCTA	TAGACCAATTATCGACCCTGCGGC
497	AAACGCCGCCCTGAGACTATTGGG	CCCAATAGTCTCAGGGCGGCGTTT
498	CTGAGTTGCCTGGAACGTTGGACT	AGTCCAACGTTCCAGGCAACTCAG
499	CGGATGGGTTGCAGAGTATGGGAT	ATCCCATACTCTGCAACCCATCCG
500	CTGACCTTTGGGGGTTAGTGCGGT	ACCGCACTAACCCCCAAAGGTCAG
501	GGAAATGAGAACCTTACCCAGCG	CGCTGGGGTAAGGTTCTCATTTC
502	AACGCATCGTCCGTCAACTCATCA	TGATGAGTTGACGGACGATGCGTT
503	TGGAGAGAGACTTCGGCCATTGTT	AACAATGGCCGAAGTCTCTCTCCA
505	TTGCGCTCATTGGATCTTGTGAGG	CCTGACAAGATCCAATGAGCGCAA
506	AGCGCGTTAAAGCACGGCAACATT	AATGTTGCCGTGCTTTAACGCGCT
507	AGCCAGTAACTGTGGGCGGCTGT	ACAGCCGCCACAGTTTACTGGCT
508	CGACTGATGTGCAACCAGCAGCTG	CAGCTGCTGGTTGCACATCAGTCG
509	GGTTGCTCATACGACGAGCGAGTG	CACTCGCTCGTCGTATGAGCAACC
510	GCGCAAATCCACGGAACCCGTACC	GGTACGGGTTCCGTGGATTGCGC
511	ACGCAGTTTATTCCCCTGGCTTCT	AGAAGCCAGGGGAATAAACTGCGT
512	AGAACCTCCGCGCCTCCGTAGTAG	CTACTACGGAGGCGCGGAGGTTCT
513	AAAGGAGCTTTCGCCCAACGTACC	GGTACGTTGGGCGAAAGCTCCTTT
514	AGTGATTGTGCCACTCCACAGCTC	GAGCTGTGGAGTGGCACAATCACT
515	GCGATCGTCGAGGGTTGAGCTGAA	TTCAGCTCAACCCTCGACGATCGC
516	GGGAGACAGCCATTATGGTCCTCG	CGAGGACCATAATGGCTGTCTCCC
517	GAGACGCTGTCACTCCGGCAGAAC	GTTCTGCCGGAGTGACAGCGTCTC
518	CCACCGGTCGCTTAAGATGCACTT	AAGTGCATCTTAAGCGACCGGTGG
519	CGGCATAACGTCCAGTCCTGGGAC	GTCCCAGGACTGGACGTTATGCCG
520	AAGCGGAACGGGTTATACCGAGGT	ACCTCGGTATAACCCGTTCCGCTT
521	TGCACACTAGGTCCGTGCTTGAT	ATCAAGCGACGGACCTAGTGTGCA
522	AGGGAACCGCGTTCAAAC TCA GTT	AACTGAGTTTGAACGCGGTTCCCT
523	GAATTACAACCACCCGCTCGTGTT	AACACGAGCGGGTGGTTGTAATTC
524	TTCAGTGCTCACGAAGCATGGATT	AATCCATGCTTCGTGAGCACTGAA
525	TTAGTTTGGCGTTGGGACTTCACC	GGTGAAGTCCCAACGCCAAACTAA

Serial No.: 09/940,185

Filed: August 27, 2001

526	AATGCGACCTCGACGAGCCTCATA	TATGAGGCTCGTCGAGGTCGCATT
527	CCGAAACCGTTAACGTGGCGCACA	TGTGCGCCACGTTAACGGTTTCGG
528	TAAAGTAACAAGGCGACCTCCCGC	GCGGGAGGTCGCCTTGTTACTTTA
529	TAATGATTTTAGTCGCGGGGTGGG	CCCACCCCGCGACTAAAATCATT
530	GGCTACTCTAAGTGCCCGCTCAGG	CCTGAGCGGGCACTTAGAGTAGCC
531	TGGCGGACGACTCAATATCTCACG	CGTGAGATATTGAGTCGTCCGCCA
532	GGGCGTTAGGCGTAATAGACCGTC	GACGGTCTATTACGCCTAACGCCC
533	GCCACCTTTAGACGGCGGCTCTAG	CTAGAGCCGCCGTCTAAAGGTGGC
534	GAGATGTGTAAACGTGCAGGCACC	GGTGCCTGCACGTTTACACATCTC
535	TAGCTCGTGGCCCTCCAAGCGTGT	ACACGCTTGGAGGGCCACGAGCTA
536	GTGTCGGCGCTATTTGGCCTTACC	GGTAAGGCCAAATAGCGCCGACAC
537	CCAGGGAAGCAACTGGTTGCCATT	AATGGCAACCAGTTGCTTCCCTGG
538	TTCCGAACTAAGCCAGAACCGCT	AGCGGTTCTGGCTTAGTTTCGGAA
539	GCAAACCCGGTAACCCGAGAGTTC	GAACCTCTCGGGTTACCGGGTTTGC
540	GCAAATGGCGTCATGCACGAACGT	ACGTTTCGTGCATGACGCCATTTGC
542	AGTACTTTTCGCGCCAGTTTAGGG	CCCTAAACTGGGCGCGAAAGTACT
543	AAGATCTGCGAGGCATCCCGGCTT	AAGCCGGGATGCCTCGCAGATCTT
544	GCAAGTGTATCGCACAGTGCGATT	AATCGCACTGTGCGATACACTTGC
545	CCGACAAGGCCTCAATTCATTCTG	CAGAATGAATTGAGGCCTTGTCCG
546	GTCTCGTCTCAACTTTAAGGCGCG	CGCGCCTTAAAGTTGAGACGAGAC
547	ATCCAGAGATCCGTTTTGCAGCGT	ACGCTGCAAAACGGATCTCTGGAT
548	GTCACCAGGAGGGAAGTTTCACCC	GGGTGAAACTTCCCTCCTGGTGAC
550	TTCCGTCAGGCGGATCAACGGAAT	ATTCGTTGATCCGCCTGACGGAA
551	ATGCCGGACACGCATTACACAGGC	GCCTGTGTAATGCGTGTCCGGCAT
552	TGGGCCGCTTGGCGCTTTCATAGA	TCTATGAAAGCGCCAAGCGGCCCA
553	CCTAGCGCGAGCTTTACTGACCAG	CTGGTCAGTAAAGCTCGCGCTAGG
554	TTGGCCAGGAATATGGTCTCGAGA	TCTCGAGACCATATTCCTGGCCAA
555	GTCTGCGGCCGACTTGCTATGCAT	ATGCATAGCAAGTCGGCCGCAGAC
556	AACTTGCTCATTCTCAAGCCGACG	CGTCGGCTTGAGAATGAGCAAGTT
557	ACGTCAGCGATTGTGGCGAAATAT	ATATTTCGCCACAATCGCTGACGT
558	ACGGCCTGCGTCAGCACATGCATC	GATGCATGTGCTGACGCAGGCCGT
559	ATACCTCCGCAGAACCATTCGGTT	AACGGAATGGTTCTGCGGAGGTAT
560	AGTTCGCGGTCCACGATTCACTT	AAGTGAATCGTGGGACCGCGAACT
561	TGCTCAATTTGTGCAGAAAACGCC	GGCGTTTTCTGCACAAATTGAGCA
562	TTATCGCGAGAGACGACCGTGTCC	GGACACGGTCGTCTCTCGCGATAA
563	GACGCGACGTGAGTAGTGGAAGCG	CGCTTCCACTACTCACGTGCGGTC
564	ATGGTAGGGGCATTGGGCTTTCCT	AGGAAAGCCCAATGCCCTACCAT
565	CCAAATATAGCCGCGCGGAGACAT	ATGTCTCCGCGCGGCTATATTTGG

49

Serial No.: 09/940,185

Filed: August 27, 2001

566	GCAAACCCTGATTGAATCGTGCCC	GGGCACGATTCAATCAGGGTTTGC
567	TAGCGTCTTGCGTGAAACCATGGG	CCCATGGTTTCACGCAAGACGCTA
568	CCACCCCGACAGCGCTGGACTCTT	AAGAGTCCAGCGCTGTCGGGGTGG
569	ACGAGCACTGAAGGCTGCTTTACG	CGTAAAGCAGCCTTCAGTGCTCGT
570	CATATCAGCGTCGTCTAGCTCGCG	CGCGAGCTAGACGACGCTGATATG
571	TGATCCCGGACCGGCTAGACTAAT	ATTAGTCTAGCCGGTCCGGGATCA
572	GGCCCCGACACTACAGGGTAATCA	TGATTACCCTGTAGTGTGCGGGGCC
573	GGCTCCAGGGCGAGATTATGAATG	CATTCATAATCTCGCCCTGGAGCC
574	CAAAATCCGATGGGCGGAAAATTA	TAATTTTCCGCCCATCGGATTTTG
575	CACAGGCGCATAGGGAGCAAGCTA	TAGCTTGCTCCCTATGCGCCTGTG
576	TAGCTATTGCCCCGATGGGCTACT	AGTAGCCCATCGGGGCAATAGCTA
577	TGGTACGCGGTCCATAGCAAGTCG	CGACTTGCTATGGACCGCGTACCA
578	GACGCTGTGGCTCGGAACTGTTC	GAACAGTTTCCGAGCCACAGCGTC
579	CCTGGGTTTCGCCGCGTGCTAACTG	CAGTTACCACGCGGCGAACCCAGG
580	TTCCCGCGTAGCCCAACAGCTATA	TATAGCTGTTGGGCTACGCGGGAA
581	TTGCGGATTGCTGCCGCATAACA	TGTTATGCGGCAGCAATCCGCGAA
582	AAAAATGGCACC GAAGTTGAGGCA	TGCCTCAACTTCGGTGCCATTTTT
583	CATTCCGCGCGAGTTGAAATCCAG	CTGGATTTCAACTCGCGCGGAATG
584	ACGCACGTTTTTTGGCACGGTTAA	TTAACCGTGCCAAAAAACGTGCGT
585	TGTCCATGACGTCGTTTCTCTGGT	ACCAGAGAAACGACGTCATGGACA
586	TCTCAGTCGGACTCGTATGCCAGA	TCTGGCATAACGAGTCCGACTGAGA
587	CTCCAAACGCACACATCAAGCATC	GATGCTTGATGTGTGCGTTTGGAG
588	TTCAACCAAGCGGGGTGTTCTGTA	TCACGAACACCCCGCTTGTTGAA
589	GGTGTCGGAGGGTGGTGACCTCGA	TCGAGGTCACCACCCTCCGACACC
590	AGCGCTTTTGGTCATGATTTGCAA	TTGCAAATCATGACCAAAAGCGCT
591	CCGAGGACTTACGTCTGCCAGGA	TCCTGGGCAGACGTAAGTCCTCGG
592	GCCCAATCCAGTTCTTATGCGCCC	GGGCGCATAAGAACTGGATTGGGC
593	CGGGTTAACCACGCAAGTTATGA	TCATAACTTGCGTGGGTAAACCCG
594	TGATTAGCGCTCAATACACGCGTG	CACGCGTGTATTGAGCGCTAATCA
595	AAGGGCAGACCTTTGGTTCGACTG	CAGTCGAACCAAGGTCTGCCCTT
596	GCGCCACAAGATTCACATGTCATT	AATGACATGTGAATCTTGTGGCGC
597	GCCATGTTCAAGGGCCTTTCGAAG	CTTCGAAAGGCCCTTGAACATGGC
598	CGCGGTGTTTTGTCTAGGTGCCGG	CCGGCACCTAGACAAAACACCGCG
600	CAACATTGTGGTGGCACTCCATCC	GGATGGAGTGCCACCACAATGTTG
601	CGATACGCGCCGGTTTGTTAAATC	GATTTAACAACCGGCGCGTATCG
602	GGCTATAAACGTGCGGACTGCTCC	GGAGCAGTCCGCACGTTTATAGCC
603	TGGGTAAATCACTATTGCGCGGTT	AACCGCGCAATAGTGATTTACCCA
604	GTCTTCATCGGCCCGCGCAAGCTA	TAGCTTGCGCGGGCCGATGAAGAC

Serial No.: 09/940,185

Filed: August 27, 2001

605	GCGACACACCCTGTACTCTGATGC	GCATCAGAGTACAGGGTGTGTGCGC
606	GTAGCAGGGTCCGCAAGACCAAGC	GCTTGGTCTTGCGGACCCTGCTAC
607	TCGCCAACGCAGGGTAACTGCCAT	ATGGCAGTTACCCTGCGTTGGCGA
608	ACTCCGAAGCTTCGAGCGGCACGA	TCGTGCCGCTCGAAGCTTCGGAGT
609	TCCCGCCCACTAGACTGACTCGTA	TACGAGTCAGTCTAGTGGGCGGGA
610	ACCTTCTGGGGTCGCTCACCAATA	TATTGGTGAGCGACCCCAGAAGGT
611	ATCATCCCAACGGCAGAGTGAAGAG	CTCTTCACTCTGCCGTGGGATGAT
612	CGCTGGACTGGCCTATCCGAGTCG	CGACTCGGATAGGCCAGTCCAGCG
613	CGGTCTCAGCAACACTGTGCGAAA	TTTGCGACAGTGTTGCTGAGACCG
614	CGAACGTTCTCCGATGTAATGGCC	GGCCATTACATCGGAGAACGTTCCG
615	ATACCGTGCGACAAGCCCCTCTGA	TCAGAGGGGCTTGTCGCACGGTAT
616	AGCTCATTCCCGAGACGGAACACC	GGTGTTCCGTCTCGGGAATGAGCT
617	TTTCATGCGGCCGTTGCAAATCAT	ATGATTTGCAACGGCCGCATGAAA
618	ACTCGAACGGACGTTCAATTCCCA	TGGGAATTGAACGTCCGTTGAGT
619	CTGCATGGTGTGGGTGAGACTCCC	GGGAGTCTCACCCACACCATGCAG
620	CCGCGAGTGTGGATGGCGTGTTGA	TCAACACGCCATCCCACTCGCGG
621	AATGTGTCGGTCCTAAGCCGGGTG	CACCCGGCTTAGGACCGACACATT
622	TAAGACGAGCCTGCACAGCTTGCG	CGCAAGCTGTGCAGGCTCGTCTTA
623	GGCGTGGGAGGATAAGACGATGTC	GACATCGTCTTATCCTCCCACGCC
624	TGCTCCATGTTAGGAACGCACCAC	GTGGTGCGTTCCTAACATGGAGCA
625	CGGTGTTGGTCGGACTGACGACTG	CAGTCGTCAGTCCGACCAACACCG
626	CCGCGCGTATCTATCAGATCTGGG	CCCAGATCTGATAGATACGCGCGG
627	AAAGCATGCTCCACCTGGAGCGAG	CTCGCTCCAGGTGGAGCATGCTTT
628	ACTTGCATCGCTGGGTAGATCCGG	CCGGATCTACCCAGCGATGCAAGT
629	TGCTTACGCAGTGGATTGGTCAGA	TCTGACCAATCCACTGCGTAAGCA
630	ATGCAGATGAACAAATCGCCGAAT	ATTCGGCGATTTGTTTCATCTGCAT
631	GCAATTCTGGGCCATGTATTGCTC	GACGAATACATGGCCCAGAATTGC
632	AGGGTTCCTTACGCGTCGACATGG	CCATGTGACGCGTAAGGAACCCT
633	GTGGAGCTAATCGCGAGCCTCAGA	TCTGAGGCTCGCGATTAGCTCCAC
634	TCGTAGTCTCACCGGCAATGATCC	GGATCATTGCCGGTGAGACTACGA
635	TTATAGCAGTGCGCCAATGCTTCG	CGAAGCATTGGCGCACTGCTATAA
636	CGAACAGTGCTGTCCGTCGCTCAA	TTGAGCGACGGACAGCACTGTTCCG
637	TCCGCGTGGACTGTTAGACGCTAT	ATAGCGTCTAACAGTCCACGCGGA
638	CATTAGCCCGCTGTCGGTAACTGT	ACAGTTACCGACAGCGGGCTAATG
639	GGAAAGAACTCAGACGCGCAATG	CATTGCGCGTCTGAGTTTCTTTCC
640	CGACTCGCTGGACAGGAGAATCGT	ACGATTCTCCTGTCCAGCGAGTCG
641	CATGATCCTCTGTTTACCCGCGG	CCGCGGGTGAAACAGAGGATCATG
642	GGCGTAGCGCTCTAAAAGCTTCGG	CCGAAGCTTTTAGAGCGCTACGCC

Serial No.: 09/940,185
 Filed: August 27, 2001

A9

643	AGTGATGCCATCAGGCCCGTATAC	GTATACGGGCCTGATGGCATCACT
644	TATGGAAAGGGCAACAGCGCTATC	GATAGCGCTGTTGCCCTTTCCATA
645	CTGTGGTTGATGGAGGATCCACAC	GTGTGGATCCTCCATCAACCACAG
646	ACTCGCTGGAATTTGCGCTGACAC	GTGTCAGCGCAAATTCAGCGAGT
647	CAGGCCCGAACCACGCGGTTACAG	CTGTAACCGCGTGTTTCGGGCCTG
648	GGCGCAATGGGCGCATAAATACTA	TAGTATTTATGCGCCCATTGCGCC
649	GGTCAATTCGCGCTACATGCCCTA	TAGGGCATGTAGCGCGAATTGACC
651	GATGGTGGACTGGAGCCCTTCCGC	GCGGAAGGGCTCCAGTCCACCATC
652	CCGCGCATAGCGCAATAGGGGAGA	TCTCCCCTATTGCGCTATGCGCGG
653	TCTTCTGGCTGTCCGGCACCCGAA	TTCGGGTGCCGGACAGCCAGAAGA
654	GCGTTCGCAATTCACGGGCCCTTA	TAAGGGCCCGTGAATTGCGAACGC
655	TCGTTTCGGCCTTGGAGAGTATCG	CGATACTCTCCAAGGCCGAAACGA
656	AGGTGCAAGTGCAAGGCGAGAGGC	GCCTCTCGCCTTGCACTTGACCT
657	CGCCAGTTTCGATGGCTGACGTTT	AAACGTCAGCCATCGAACTGGCG
658	GCTTTACCGCCGATCCAGATATC	GATATCTGGGATCGGCGGTAAAGC
659	GTGCTTGACGAAGAGGCGAAATGT	ACATTTGCGCTCTTCGTCAAGCAC
660	CAGTCCGTGCGCTTCATGTCCTCA	TGAGGACATGAAGCGCACGGACTG
661	TACGCGTAAGAGCCTACCCTCGCG	CGCGAGGGTAGGCTCTTACGCGTA
662	GGCGAGTCTTGTGGGGACATGTGT	ACACATGTCCCCACAAGACTCGCC
663	CCAAAGCGAAGCGAGCGTGTCTAT	ATAGACACGCTCGCTTTCGCTTTGG
664	GCCGTAGGTTGCTCTTACCCGAAC	GTTCGGTGAAGAGCAACCTACGGC
665	AAATCCGCGATGTGCCGTGAGGCT	AGCCTCACGGCACATCGCGGATTT
666	GGCTTCGCACCCGTACCAATTTAG	CTAAATTGGTACGGGTGCGAAGCC
667	TGTAGAGTCCCACGTAGCCGGCAT	ATGCCGGCTACGTGGGACTCTACA
668	CACTAGTCTGGGGCAAGGTGCATT	AATGCACCTTGCCCCAGACTAGTG
669	TGTACTCGGCAGGCGCAATAGATT	AATCTATTGCGCCTGCCGAGTACA
670	AACGGGTATCGGAAGCGTAAAGC	GCTTTTACGCTTCCGATACCCGTT
671	CGGACTGCCCGTTTGCAAGTTGAG	CTCAACTTGCAAACGGGCAGTCCG
672	ATCGTTCAGCACTGGAGCCCGTAA	TTACGGGCTCCAGTGCTGAACGAT
673	ATGCATCGAACTAGTCGTGACGGC	GCCGTCACGACTAGTTCGATGCAT
674	TTCCAGGCATTAAGGAGAGGGAGC	GCTCCCTCTCCTTAATGCCTGGAA
675	GTGCGACATCTACTCCACGATCCC	GGGATCGTGGAGTAGATGTGCGAC
676	CTCATCGTCCTAACACGAGAGCCC	GGGCTCTCGTGTTAGGACGATGAG
677	AATGGCACTTCGGCGGTGATGCAA	TTGCATCACCGCCGAAGTGCCATT
678	CCGTGGGAGGGAATCCAACCGAGG	CCTCGGTTGGATTCCCTCCCACGG
679	AAATTCTCGTTGGTGACGGCTCAT	ATGAGCCGTCACCAACGAGAATTT
680	TTGCTCTTATCCTTGTCCTGGGCG	CGCCCAGGACAAGGATAAGAGCAA
681	TTAAGGATCAGGCGGAGCTTGACAG	CTGCAAGCTCCGCCTGATCCTTAA

Serial No.: 09/940,185
 Filed: August 27, 2001

A9

682	CGCGACTAAGGTGCTGCAACTCGA	TCGAGTTGCAGCACCTTAGTCGCG
683	GCTCGATTTACGGCCCGTTGTTC	GAACAACGGGGCCGTGAAATCGAGC
684	AGCAGAGTGCGTTGCAGAGGCTAA	TTAGCCTCTGCAACGCACTCTGCT
685	TGGAGGTGAGGACGACGTGCACTA	TAGTGCACGTCTGCTCACCTCCA
686	AACCGTTTAGGGTACATTCGCGGT	ACCGCGAATGTACCCTAAACGGTT
687	TATGATCGCTCGGCTCACAGTTTG	CAAACGTGTAGCCGAGCGATCATA
688	GACTTTTTGCGGAAACGTCATGGT	ACCATGACGTTTCCGCAAAAAGTC
689	TGTCGGTTATTCCACCTGCAAGGA	TCCTTGCAGGTGGAATAACCGACA
690	CTATGTTTTGCACTGCGCCGTCGA	TCGACGGCGCAGTGCAAACCATAG
691	AGCAGGGAAATTCAATCGTTTCGA	TGCGAACGATTGAATTTCCCTGCT
692	CCTAACCGAGCGCTTAGCATTTC	GGAAATGCTAAGCGCTCGGTTAGG
693	CCCGACCCTAACTCGCATTGAATA	TATTCAATGCGAGTTAGGGTCGGG
694	TTGCTTAATGGTGACGCCACGGAT	ATCCGTGGCGTCACCATTAAAGCAA
695	GATGCTCGCCGTGTTTAGTTCACG	CGTGAACATAACACGGCGAGCATC
696	TCGGATGACGAGTTTCCATGACGG	CCGTCATGGAACTCGTCATCCGA
697	ATGCGGTCTACTTTCTCGATCGGG	CCCGATCGAGAAAGTAGACCGCAT
698	TTGCGAGGCTAAGCACACGGTAAA	TTTACCGTGTGCTTAGCCTCGCAA
699	AACTTAATTACCGCCTCTGGCGCC	GGCGCCAGAGGCGGTAATTAAGTT
700	GTGACCGCGAACTTGTTCCGACAG	CTGTGCGAACAAGTTCGCGGTCAC
701	TGCGGATTACCGATTGCTCTTAA	TTAAGAGCGAATCGGTAATCCGCA
702	TGATAGGGGGGCCACGTTGATCAGA	TCTGATCAACGTGGCCCCCTATCA
703	TCGCTCCGTAGCGATTATCGTAG	CTACGATGAATCGCTACGGAGCGA
704	TGTCAGCTGGTAGCCTCCGTTTGA	TCAAACGGAGGCTACCAGCTGACA
705	AGCGTCGCATGACGCTTACGGCAC	GTGCCGTAAGCGTCATGCGACGCT
706	TCACTCAGCGCTGTGACTGCCTGA	TCAGGCAGTCACAGCGCTGAGTGA
707	GTTTGCGCTATAGTGGGGGACCGT	ACGGTCCCCCACTATAGCGCAAAC
708	GTCGCATTCTGCACTGGCTTCGCC	GGCGAAGCCAGTGCGAATGCGAC
709	TGATTAGGTGCGGTCCCGTAGTCC	GGACTACGGGACCGCACCTAATCA
710	AAGGGACCTTGGGTGACGGCGAGA	TCTCGCCGTCACCCAAGGTCCCTT
711	TCAAATGGCCACCGCGTGTCTTC	GAATGACACGCGGTGGCCATTTGA
712	CTCCGACGACCAATAAATAGCCGC	GCGGCTATTTATTGGTCGTCGGAG
713	GGCTATTCCCGTAGAGAGCGTCCA	TGGACGCTCTCTACGGGAATAGCC
714	TGGATAACCTCTCGGTCCATCCAC	GTGGATGGACCGAGAGGTTATCCA
715	GACCGCTGTACGGGAGTGTGCCTT	AAGGCACACTCCCGTACAGCGGTC
716	GCCACAGAGTTTTAGCAGGGACCC	GGGTCCCTGCTAAACTCTGTGGC
717	CCCACGCTTTCGACCACTGACCT	AGGTCAGTGGTCGGAAAGCGTGGG
718	CATTGACACAATGCGGGGACTGAT	ATCAGTCCCCGCATTGTGTCAATG
719	AGCCACTCGACAGGGTTCCAAAGC	GCTTTGGAACCCTGTCGAGTGGCT

Serial No.: 09/940,185

Filed: August 27, 2001

720	CAGGATGAGCAAAGCGACTCTCCA	TGGAGAGTCGCTTTGCTCATCCTG
721	CAAGGTATGGTCTGGGGCCTAAGC	GCTTAGGCCCCAGACCATACCTTG
722	GGTGTTTCGGCCTAAACTCTTTCGG	CCGAAAGAGTTTAGGCCGAACACC
723	TTTAGTCGGACCCTGTGGCAATTC	GAATTGCCACAGGGTCCGACTAAA
724	CACACGTTTCCGACCAGCCTGAAC	GTTTCAGGCTGGTCGGAAACGTGTG
725	CTGGACGAACTGGCTTCCTCGTAC	GTACGAGGAAGCCAGTTCGTCCAG
726	TTCACAATCCGCCGAAAACCTGACC	GGTCAGTTTTTCGGCGGATTGTGAA
727	AACAGGATATCCGCGATCACGACA	TGTCGTGATCGCGGATATCCTGTT
728	TACGTCGGATCCATTGCGCCGAGT	ACTCGGCGCAATGGATCCGACGTA
729	CATGGATCTCTCGGTTTGATCGCC	GGCGATCAAACCGAGAGATCCATG
730	AGCCAGGCGCGTATATACGCTCGG	CCGAGCGTATATACGCGCCTGGCT
731	ATTTGGCACGTGTCGTGCCATGTT	AACATGGCACGACACGTGCCAAAT
732	CCGCGTTGCACCACTTTGAGGTGC	GCACCTCAAAGTGGTGCAACGCGG
733	TTGGACGTGACAAGCATGGCGCTC	GAGCGCCATGCTTGTCACGTCCAA
734	CTGAATCGCGCAAGTAAATGGGGG	CCCCCATTTACTTGCGCGATTGAG
735	GATAAGGTCCACCAGATTGCGCGC	GCGCGCAATCTGGTGGACCTTATC
736	CTAACAATTGCCAACCGGGACGGC	GCCGTCCCGGTTGGCAATTGTTAG
737	GGTAACCTGGGTGCTTGCAAGTTA	TAACCTGCAAGCACCCAGGTTACC
738	ATCGGAGCCACCATTGCGATTGGG	CCCAATGCGAATGGTGGCTCCGAT
739	GTGAACTGGCTTGCCCCAGGATTA	TAATCCTGGGGCAAGCCAGTTTAC
740	AGGCGATAGCATGGTCCCATATGA	TCATATGGGACCATGCTATCGCCT
741	AACGGTATCGTGGCTAATGCACGA	TCGTGCATTAGCCACGATACCGTT
742	AGTAGTGGTCCTCCAGATCGGCAA	TTGCCGATCTGGAGGACCACTACT
743	CCGTTGAATTGGACGGGAGGTTAG	CTAACCTCCCGTCCAATTCAACGG
744	GCATAAGTGCGGCATCGCGAAGGG	CCCTTCGCGATGCCGCACTTATGC
745	CGACAAGATGCAGCTGCTACATGC	GCATGTAGCAGCTGCATCTTGTCG
746	TCGCAGTGATTCCCGACCGATAAG	CTTATCGGTGCGGAATCACTGCGA
747	CAAGGCGAGTCCACTCGAGGGGAC	GTCCCCTCGAGTGGACTCGCCTTG
748	GCAACTTGCACGGCATAAGTGGCC	GGCCACTTATGCCGTGCAAGTTGC
749	TCCGAGCTTGACGTTTCGCGACGTC	GACGTCGCGAACGTCAAGCTCGGA
750	AGCGCTGGGCTGTGCTGCCATCTC	GAGATGGCAGCACAGCCCAGCGCT
751	TTCATGTCGCTGAGTAACCCTCGC	GCGAGGGTTACTCAGCGACATGAA
752	CGAACCGCTAATGCCATTGTGAG	CTGACAATGGGCATTAGCGGTTTCG
753	CACGGAAGGTGGGACAAATCGCCG	CGGCGATTTGTCCACCTTCCGTG
754	CACAGATGGAGACAAACGCGCCTT	AAGGCGCGTTTGTCTCCATCTGTG
755	TTTTCGCAACTCGCTCCATAACCC	GGGTTATGGAGCGAGTTGCGAAAA
756	ACGTTACGTTTCCGGCGCCTCTAA	TTAGAGGCGCCGGAAACGTAACTG
757	TATCGGATTGCGTGGGTTTCAATC	GATTGAAACCCACGCAATCCGATA

A9

Serial No.: 09/940,185

Filed: August 27, 2001

758	CTTCCACAATTGTCTGCGACGCAC	GTGCGTCGCAGACAATTGTGGAAG
759	TGCACAAAGGTATGGCTGTCCGGC	GCCGGACAGCCATACCTTTGTGCA
761	TCCGATGCCAGTCCCATCTTAAGA	TCTTAAGATGGGACTGGCATCGGA
762	CTGAAACCGTGCGAATCGAGGTGA	TCACCTCGATTTCGCACGGTTTCAG
763	CGGTGTTCCGCGTGTGAAAAAAT	ATTTTTTCGACACGCGGAACACCG
764	TCTAGCAGGCCTTTTGAATCGCCA	TGGCGATTCAAAGGCCTGCTAGA
765	GAGTCACCTCTGAGACGGACGCCA	TGGCGTCCGTCTCAGAGGTGACTC
766	TCTTCTGTATCCTGCAGCAGCAT	ATGCTGCTGCAGGATGACAGAAGA
767	GCGGATGAAACCTGAAAGGGGCCT	AGGCCCTTTTCAGTTTCATCCGC
768	GGGGCCCCAACTGGTATCAAGCC	GGCTTGATACCAGTTTGGGGCCCC
769	GCATTGGCTTCGGATTCTCCTACA	TGTAGGAGAATCCGAAGCCAATGC
770	AGGCGGCCCAACTGTGAGGTCTTG	CAAGACCTCACAGTTGGGCCGCCT
771	ACACCATGTGCTCCGCGCTGCAGT	ACTGCAGCGCGGAGCACATGGTGT
772	ACGATGAACATGAATCGGGAGTCG	CGACTCCCGATTTCATGTTTCATCGT
773	CTGCATCCCTGTAGCAGCGCTCCG	CGGAGCGCTGCTACAGGGATGCAG
774	GTGCCGTATTTTCGACCTGTGCGTT	AACGCACAGGTCGAAATACGGCAC
775	GCAGTGCGCACTTCAGTTCAAAG	CTTTTGAAGTGAAGTGCGCACTGC
776	GCGATTTTAAGCGATGCCTTGACG	CGTCAAGGCATCGCTTAAAATCGC
777	TAGGTGACCTAGGCTTGCTTGCGG	CCGCAAGCAAGCCTAGGTACCTA
778	CTGGATACCTTGCCGTGTGCGGCGC	GCGCCGCACAGGCAAGGTATCCAG
779	CCCCTTACGGCTCGTCGTCTATGC	GCATAGACGACGAGCCGTAAGGGG
780	GCGCTTGCCCGATGCGATGCATTA	TAATGCATCGCATCGGGCAAGCGC
781	TTTCTGTAAGCGGCCTGGGGTTCA	TGAACCCAGGCCGCTTACAGAAA
782	GGCTGAGGTGAGCGGTAAGGATGA	TCATCCTTACCGCTCACCTCAGCC
783	TCTTGGCCTCCCCGATCTAATTTG	CAAATTAGATCGGGGAGGCCAAGA
784	GGAGGTAACGCCGTGTACGTAGGA	TCCTACGTACACGGCGTTACCTCC
785	GTAATCCATTTGTGGCTGCGTCAA	TTGACGCAGCCACAAATGGATTAC
786	CAAACCCATTCCAGCAGACGCCTG	CAGGCGTCTGCTGGAATGGGTTTG
787	TAGGAGGAATTTGGCATGCGGGCG	CGCCCGCATGCCAAATTCCTCCTA
788	ATAGGTAGGATGTGCCCGGCGTTG	CAACGCCGGGCACATCCTACCTAT
789	GCAAGTGCTTAGCTCGTCAGCCTC	GAGGCTGACGAGCTAAGCACTTGC
790	CTGGCTGTGTGCGATCTCGTTAAC	GTTAACGAGATGCGACACAGCCAG
791	CTAACGTCGTCTCGCGCAATCACT	AGTGATTGCGGAGACGACGTTAG
792	TTTTCATAAACGTTGTCCCCGAGC	GCTCGGGGACAACGTTTATGAAAA
793	AGCAGGAGGACGAACCTCCGCTCC	GGAGCGGAGGTTTCGTCCTCCTGCT
794	TTCAAGCACCATCGTGCAATCCAA	TTGGATTGCACGATGGTGCTTGAA
795	AGCGTCGCCAGTGATCGCTAGTGG	CCACTAGCGATCACTGGCGACGCT
796	TACATTCCCTGCCTCCGTGGGCTT	AAGCCACGGAGGCAGGGAATGTA

A9

Serial No.: 09/940,185
 Filed: August 27, 2001

797	CGCTTCGCGTATTCAGTAGCGGTT	AACCGCTACTGAATACGCGAAGCG
798	TCGGACGCGTCGACACTCATTATA	TATAATGAGTGTGACGCGTCCGA
799	TCTGAGCAGGCCAGCGCTCCAGCT	AGCTGGAGCGCTGGCCTGCTCAGA
800	TTGAATTGCCAAGCCCTGAAAGCC	GGCTTTCAGGGCTTGGCAATTCAA
801	AGTTTTCGCCTTGATGCGTCGGTG	CACCGACGCATCAAGGCGAAAAC
802	GTTTCATAGGCCACGCGTGCTAAA	TTAGCACGCGTGGCCTATGAAAC
803	GGAGCGAAGACTTCGTCTGCCCAA	TTGGGCAGACGAAGTCTTCGCTCC
804	ATTGGCCGAGGGTGAATGCAGCCT	AGGCTGCATTCACCCTCGGCCAAT
805	TGATCCATCCGAATGCTTTTCCAT	ATGGAAAAGCATTTCGGATGGATCA
806	GCACACAGTTGTCTTGGCCCATGA	TCATGGGCCAAGACAACGTGTGTGC
807	CTGGCGGGCAGTGGA AAAACAAC	GTTGTTTTTCCACTGCCCGCCAG
808	ATCTCCATGCGTAAGACTGCTCCG	CGGAGCAGTCTTACGCATGGAGAT
809	TCTCCTCTCGTCGCAGTTCGTGGA	TCCACGAACTGCGACGAGAGGAGA
810	TAGCGTATTCACTCTTGCCGAGCA	TGCTCGGCAAGAGTGAATACGCTA
811	CAATCAAAAGCCACGGCGCGATGG	CCATCGCGCCGTGGCTTTTGATTG
812	AGCGTCACGGAATTCAGCAGATCT	AGATCTGCTGAATTCCGTGACGCT
813	GACTCCCTGTTAATGCGCCCAAGG	CCTTGGGCGCATTAAACAGGGAGTC
814	TAGGCACTGCCGGTTCAGATTCAA	TTGAATCTGAACCGGCAGTGCCTA
815	AACAGGGTGATAACGGTGGCCAAT	ATTGGCCACCGTTATCACCTGTT
816	CGTGCGTACCATGTGTAAGTGCGT	ACGCACTTACACATGGTACGCACG
817	GACCAATTCTACTTCGGCAGCCCA	TGGGCTGCCGAAGTAGAATTGGTC
818	ATCGGACCGATTTGCTTTTGGCTG	CAGCCAAAAGCAAATCGGTCCGAT
819	TCCGCCGAAGCACACGCTTATTCG	CGAATAAGCGTGTGCTTCGGCGGA
820	AACGGTACGCATTGTGAGCAGTGT	ACACTGCTCACAATGCGTACCGTT
821	TGGCGACTACTGTTCCCCTGAATC	GATTCAGGGGAACAGTAGTCGCCA
822	CAGAGGGGACAGCCGTATGCCTTA	TAAGGCATACGGCTGTCCCCTCTG
823	CGGTGGTTTTATCGGAATCTGCGA	TCGCAGATTCCGATAAAACCACCG
824	TTGGCCTCCGACCTCACGACATAT	ATATGTCGTGAGGTTCGGAGGCCAA
825	CGTTTCGCTAGCATCTGGCGCCGA	TCGGCGCCAGATGCTAGCGAAACG
826	ACTAAGCGGTGGAGCCGGTGGATG	CATCCACCGGCTCCACCGCTTAGT
827	ATATTGGCTGCGTTTACGGGCCGC	GCGGCCCGTAAACGCAGCCAATAT
828	CCGCTATGGTGGCAATCCCGATAC	GTATCGGGATTGCCACCATAGCGG
829	GTTGCATGTGGCTCAGGCGGCATA	TATGCCGCCTGAGCCACATGCAAC
830	ATTCTGGGGAGTGACCCAGGGCTT	AAGCCCTGGGTCACTCCCCAGAAT
831	CTCTCCAAGGAGACGAGCCAATGT	ACATTGGCTCGTCTCCTTGGAGAG
832	GAAAGGACGGGATTTGGGGGCTAA	TTAGCCCCCAAATCCCGTCCTTTC
833	TATGTAGTACCTTGGCTCGCGCCA	TGGCGCGAGCCAAGGTACTACATA
834	TCCCTTTCGATGAGCGGCTGTACT	AGTACAGCCGCTCATCGAAAGGGA

A9

Serial No.: 09/940,185
 Filed: August 27, 2001

835	TAGATCGGGCAGAGCCCGTATCTT	AAGATACGGGCTCTGCCCCGATCTA
836	GGAATGCTTTAGGCTGCCGAGCTG	CAGCTCGGCAGCCTAAAGCATTCC
837	ATGGTAGCAACATTCAACGCCAGG	CCTGGCGTTGAATGTTGCTACCAT
838	CTATGAAACGTGTGGCCCAGCAAC	GTTGCTGGGCCACACGTTTCATAG
839	ATGTTGCTAGTGCCTTTCGGGCCT	AGGCCCCGAAAGGCACTAGCAACAT
840	CCAATGTGCGCAGACTCAGTCATT	AATGACTGAGTCTGCGCACATTGG
841	GATAGTGCTCGCAAACGGGCCTTC	GAAGGCCCGTTTGCGAGCACTATC
842	GCACCCTGTTGCCTCATTGAGCGT	ACGCTCAATGAGGCAACAGGGTGC
843	GGCGTGAATAGAGTGACCAGGCGG	CCGCCTGGTCACTCTATTACAGCC
844	ACGTGCCAGCTGCGGGCACTTTAT	ATAAAGTGCCCCGAGCTGGCACGT
845	AGTGGAATAGTCGCGTCGTGCCGC	GCGGCACGACGCGACTATTCCACT
846	ACTCGCCTATTACCGCTGGATTGG	CCAATCCAGCGGTAATAGGCGAGT
847	GAGACCGGATTGAGATGATCCCGT	ACGGGATCATCTCAATCCGGTCTC
849	CTGGCAGTTTACCACCGAACCAGT	ACTGGTTCGGTGGTAAACTGCCAG
850	TTACATTGCCGATTTTCGCATGTGA	TCACATGCGAAATCGGCAATGTAA
851	TAAAACTGAAGGGTCGCCTCAGCA	TGCTGAGGCGACCCTTCAGTTTTA
852	GGCTTCGCATGCCTTTGCAACATT	AATGTTGCAAAGGCATGCGAAGCC
853	AAGACCGAAGGTCTCTCTGAGGGC	GCCCTCAGAGAGACCTTCGGTCTT
854	GCCTATGGCTCCAGCTCAGCAGTA	TACTGCTGAGCTGGAGCCATAGGC
855	CGTATCATAGCGTTCGGTGGACAA	TTGTCCACCGAACGCTATGATACG
856	CATGCGCTCGCACTCTGCCTGTCT	AGACAGGCAGAGTGCGAGCGCATG
857	TGGGCAATTCGGAACGTCCGTCT	AGACCGACGTTTCCGAATTGCCCA
858	TTGCGGAGATGCGACGGTACATTG	CAATGTACCGTCGCATCTCCGCAA
859	ACTTTCGCACGTCGATCTGGACTG	CAGTCCAGATCGACGTGCGAAAGT
860	CTAACTGCCGCGGCAAACCTGATTA	TAATCAGTTTGCCGCGGCAGTTAG
861	GGCCGCGGATTTTATTCCTTGAT	ATCCAAGGAATAAAATCCGCGGCC
862	GAATTTGGAACGGTGTTCCGATGA	TCATCGGAACACCGTTCCAAATTC
863	GTCCATCCATCTACGGCATCAGGA	TCCTGATGCCGTAGATGGATGGAC
864	TAAACGACCTGGCACATGTGCGTA	TACGCACATGTGCCAGGTGCTTTA
865	CACCATCCAAGAGCCAATCCTAGG	CCTAGGATTGGCTCTTGGATGGTG
866	ACTCATATACGATCAGTCCGCCGC	GCGGCGGACTGATCGTATATGAGT
867	GTGCCAACCGACGATCAACCGAAC	GTTCCGTTGATCGTCGGTTGGCAC
868	TGGGGTTTCGTACAGGTCGGTTCAT	ATGAACCGACCTGTACGAACCCCA
869	AACAGTAGAGGCGAGGCCTGCGGG	CCCGCAGGCCTCGCCTCTACTGTT
870	TGCATCGAATCCGAGATGGATCTT	AAGATCCATCTCGGATTTCGATGCA
871	GCGTCACGTTATGTCCGCTCTGTC	GACAGAGCGGACATAACGTGACGC
872	GGGACATGCGTAGCGCAATATCAC	GTGATATTGCGCTACGCATGTCCC
873	CACACGTACACCATCCAAAGTGG	CCACTTTGGATGGTGTGACGTGTG

89

Serial No.: 09/940,185
 Filed: August 27, 2001

874	ATGCTCAGGTGCTAAATACGGCCA	TGGCCGTATTTAGCACCTGAGCAT
875	AAAAATGTTTAGCGCGCTGACTGG	CCAGTCAGCGCGCTAAACATTTTT
876	ATAGTCCGTTTCCGTTCCCAACGA	TCGTTGGGAACGGAAACGGACTAT
877	TCGATCTTCTGGGTTGCAGACCAG	CTGGTCTGCAACCCAGAAGATCGA
878	GTCGGCGCAGCCGATCCTCATGTC	GACATGAGGATCGGCTGCGCCGAC
879	GTTGCGGGGTGTGAAAAGGATCT	AGATCCTTTTCGACACCCCGCAAC
880	ATCTCTTCCTCGGGTGGATGCCAG	CTGGCATCCACCCGAGGAAGAGAT
881	TGATGTGCGTTTCAGCTTTTCGCG	CGCGAAAAGCTGAAACGCACATCA
882	GTTAAGGGGTGAGAACATCCGGCC	GGCCGGATGTTCTCACCCCTTAAC
883	AAGTCGTCTCCCTGCGTCTCGTCC	GGACGAGACGCAGGGAGACGACTT
884	CCGACCTAATAAGGCGCAACAATG	CATTGTTGCGCCTTATTAGGTCGG
885	CATCATTGGCACCGTACCAATGCC	GGCATTGGTACGGTGCCAATGATG
886	TGGAGAAAGGGAAGTGCAGCAACG	CGTTGCTGCACTTCCCTTTCTCCA
887	TGGTACTCCTTGTCATGCCTGCCA	TGGCAGGCATGACAAGGAGTACCA
888	GGCACAGGTTCTCTTGACGCGCGG	CCGCGCTGCAAGAGAACCTGTGCC
889	GAATCTGGGCATTGCTACGAGACC	GGTCTCGTAGCAATGCCCAGATTC
890	CGAAATGGGAGCGTCCACTACCAC	GTGGTAGTGGACGCTCCCATTTG
891	ACATATGAGCTCGCGTGCTTGCAT	ATGCAAGCACGCGAGCTCATATGT
892	TCGAGCACGGTCACTGATAAAGCC	GGCTTTATCAGTGACCGTGCTCGA
893	GAGGGTCCCTGCTCAGAGTTGGTT	AACCAACTCTGAGCAGGGACCCTC
894	AAATGCGATCGCCCCCTTATGGAAT	ATTCCATAAGGGGCGATCGCATTT
895	CTACCCGAATGGATTGCGGATGGC	GCCATCCGCAATCCATTGCGGTAG
896	AGGGACTGGCAGGTCTCTGCGCGT	ACGCGCAGAGACCTGCCAGTCCCT
897	TAACGATCCATTCCACGAATGCAG	CTGCATTCTGGAATGGATCGTTA
898	GGCCGCACGTACGATTACGCCTTG	CAAGGCGTAATCGTACGTGCGGCC
899	TGGGGAATGCATCAGTTGTTGGCT	AGCCAACAACCTGATGCATTCCCA
900	TATCTGGGAGTAGCAGGCAGGGCC	GGCCCTGCCTGCTACTCCAGATA
901	CCGAAGGTTTCACGCTCAGGTCGC	GCGACCTGAGCGTGAAACCTTCGG
902	GAACCCAGCTGGGACATCCTTCAG	CTGAAGGATGTCCAGCTGGGTTC
903	TGCATGCGAGCAAATAACCCGGAC	GTCCGGGTTATTTGCTCGCATGCA
904	AATTGTCCGCCAAACGCTTTTCAG	CTGAAAAGCGTTTGCGGACAATT
905	GTCGGCTTCGAGCGATCGAGTGTG	CACACTCGATCGCTCGAAGCCGAC
906	TCGCGTGCTCTACGTAGCCCATGA	TCATGGGCTACGTAGAGCACGCGA
907	GGCTTCCGCGATAACGTAATTCGC	GCGAATTACGTTATCGCGGAAGCC
908	TGTAGCCGACTAGGGCCGAAGCCC	GGGCTTCGGCCCTAGTCGGCTACA
909	AAGCGAACGCCCTGGCTGAATATT	AATATTAGCCAGGGCGTTTCGCTT
910	TGTCACGCGACGTGCTGCAGATTT	AAATCTGCAGCACGTGCGTGACA
911	CCGTGTCCGTGTTGTCGACAGGCG	CGCCTGTGACAACACGGACACGG

89

Serial No.: 09/940,185
 Filed: August 27, 2001

912	CCCCACACGTTGCGCCTATATGTG	CACATATAGGCGCAACGTGTGGGG
913	GGCGGGCACAACCTCAACACAGATG	CATCTGTGTTGAGTTGTGCCCGCC
914	CGACTGCGGGATCACCGGTGATTA	TAATCACCGGTGATCCCGCAGTCG
915	TCGGGACATGACCGGTACGGAGTC	GACTCCGTACCGGTATGTCCCGA
916	TACCTCGAGTGGCCGTTGATCGGG	CCCGATCAACGGCCACTCGAGGTA
917	TAATTCATGGGGCTAGCCGAACCA	TGGTTCGGCTAGCCCCATGAATTA
918	ACACTCTAAGCCGATTCCGTTCTGA	TCGAACGGAATCGGCTTAGAGTGT
919	GTGGGCGTGAGTGACACGCACAAA	TTTGTGCGTGTCACTCACGCCAC
920	ACGACTCCTCGGGCAAAGTACGTA	TACGTACTTTGCCCGAGGAGTCGT
921	TGTGGTCATGGCGCTACTGTTTTT	GAAAACAGTAGCGCCATGACCACA
922	CTTTTCGCTAGCCAGAGCGGGTTCC	GGAACCCGCTCTGGCTAGCGAAAG
923	ACAGGGCGTGTTAGCGTGTGACAA	TTGTCACACGCTAACACGCCCTGT
924	GGTACTTCCGGCGTATCGGGCCAC	GTGGCCCGATACGCCGGAAGTACC
925	GTGGGTTTTGTTACCCCTTCTGGG	CCCAGAAGGGTGAACAAAACCCAC
926	ACGCAATTCCGCATTACTTACCCG	CGGGTAAGTAATGCGGAATTGCGT
927	CGCCTCGACTGCGGTCAAGCACAA	TTGTGCTTGACCGCAGTCGAGGCG
928	GTGAAATGGATCCAGAGAGGGCCA	TGGCCCTCTCTGGATCCATTTAC
929	TATAAACGCTGCAGGGCTCCGTTA	TAACGGAGCCCTGCAGCGTTTATA
930	GTTATTCAGGCGGCTTGTAACGGG	CCCGTTACAAGCCGCCTGAATAAC
931	GGGTTCTAGCGTGCGGTTTCAGTT	AACTGAACGCGCACGCTAGAACCC
932	TTGGGCTCGAGCGGTACACCACTA	TAGTGGTGTACCGCTCGAGCCCAA
933	CCGTCTTCAGGACAACGGTATGCG	CGCATACCGTTGTCCTGAAGACGG
934	GGACCCTTTGACAGATTGCGGCAC	GTGCCGCAATCTGTCAAAGGGTCC
935	TAAATTTTATCGCCAGGCGGCGCT	AGCGCCGCCTGGCGATAAAATTTA
936	GCCGAACGCAAGATCGCTTGAAC	AGTTCAAGCGATCTTGCGTTCCGGC
937	TAGGCCATTGGTGCCCTAAGACGG	CCGTCTTAGGGCACCAATGGCCTA
938	CAAACCACAGCTTACAGGCTGCGT	ACGCAGCCTGTAAGCTGTGGTTTG
939	TAAACGGAGACTGGCACGGTAGCA	TGCTACCGTGCCAGTCTCCGTTTA
940	TAGCGCGCATCACACTTGGAATCG	CGATTCCAAGTGTGATGCGCGCTA
941	TGCTGACACAAACGAGCCGTTTCG	CGAAACGGCTCGTTTGTGTCAGCA
942	CGCTTAACGGCATTGACTGTCCAC	GTGGACAGTCAATGCCGTTAAGCG
943	TTCCACGGCCGTGTATTACGGATA	TATCCGTAATACACGGCCGTGGAA
944	TTTATGCCGTTGCCGAGGAAGACT	AGTCTTCCTCGGCAACGGCATAAA
945	AGTGCCGAGATAGGGGACTGGGCG	CGCCCAGTCCCCTATCTCGGCACT
946	CTAGTCTCCACGCCCTCGGGACGA	TCGTCCCGAGGGCGTGAGACTAG
947	CCGCCATTGGAAGATGGATGATG	CATCATCCATCTTCCGAATGGCGG
948	TGACGGTGAAAGTCGATTGCGAAG	CTTCGCAATCGACTTTCACCGTCA
949	ATATGCGTCACCACCCGGTTCCGA	TCGGAACGGGTGGTGACGCATAT

A9

Serial No.: 09/940,185

Filed: August 27, 2001

950	CCATCAGTGAAGGGGTTGCTGCCA	TGGCAGCAACCCCTTCACTGATGG
951	CATATGTGCTTGGCTTGCGATGAC	GTCATCGCAAGCCAAGCACATATG
952	TCTGCTTTGGAAGCCTGAACTGCT	AGCAGTTCAGGCTTCCAAAGCAGA
953	CGATTTGGTCAAGAAGGCGGAAAT	ATTTCCGCCTTCTTGACCAAATCG
954	ATCAGAGGCCTTCCCGCCTCGTTA	TAACGAGGCGGGAAGGCCTCTGAT
955	ATTGTTGTGCTTGCCACATCGCAG	CTGCGATGTGGCAACGACAACAAT
956	TGAAATGTGTCTGGACGCGAGTCT	AGACTCGCGTCCAGACACATTTCA
957	GCGGGCGATGCTCCTTAAAGGGTA	TACCCTTTAAGGAGCATCGCCCGC
958	CCGCAATCTCCATGCGTCGACCGT	ACGGTCGACGCATGGAGATTGCGG
959	TGCCGCGTAATCACCTGGAAC TTG	CAAGTTCAGGTGATTACGCGGCA
960	TTCCAGTAGCCAGCGGTAGTGTGA	TCACACTACCGCTGGCTACTGGAA
961	CTGAATTCCGCCTATTGTTCCGCA	TGCCGAACAATAGGCGGAATTCAG
962	GCTTGAACCTCGAGGCGATGTTCT	AGAACATCGCCTCGAGGTTCAAGC
963	CAAGCGTGGAAGTACGACCCGCCA	TGGCGGGTCGTA CTTCACGCTTG
964	GTGTGCACTGGATCCGAGCCCTAG	CTAGGGCTCGGATCCAGTGCACAC
965	TCCCTGGGCTAGCATTGCGAGGTT	AACCTCGCAATGCTAGCCCAGGGA
966	AGAACCAAAGACGCTTGTTTGCCG	CGGCAAACAAGCGTCTTTGGTTCT
967	CGTCACATGCAAACGTTCCCTCCC	GGGAGGGAACGTTTGATGTGACG
968	TGACCGCATGTGTATTGAGTCGCT	AGCGACTCAATACACATGCGGTCA
969	GCGGGCCCAATGAGTATCCGTCAT	ATGACGGATACTCATTGGGCCCGC
970	TAGTGA CTGTGAACGCCCTGGTT	AACCAGGGGCGTTACAGTCACTA
971	GGCACCGTCTGCCGCGCGTATATC	GATATACGCGCGGCAGACGGTGCC
972	TCGATGCAGTCTTTTTCCCGTCAA	TTGACGGGAAAAAGACTGCATCGA
973	ACCCCGTGGGGTTTCGCCATTTTT	AAAAATGGCGAAACCCACGGGGT
974	CTACACGCGCAGTTGTGACTTGTG	CACAAGTCACA ACTGCGCGTGTAG
975	CGCAGCGACCTCATCTCTGGAGCC	GGCTCCAGAGATGAGGTCGCTGCG
976	CGACCCAGCACTCCTAAAATCGGT	ACCGATTTTAGGAGTGCTGGGTGCG
977	ACGCGCCGCTCATCACTACAATCT	AGATTGTAGTGATGAGCGGCGCGT
978	CGCAACTTCTGTGGCAAAGCCAG	CTGGCTTTGCCACAGGAAGTTGCG
979	TCGTTGGGCACATAAGGCAACTGA	TCAGTTGCCTTATGTGCCCAACGA
980	CCGCTTGTAATTGCCATTCTCCGT	ACGGAGAATGGCAATTACAAGCGG
981	GTAACCAGGGAGTCCTGGGCTGTG	CACAGCCCAGGACTCCCTGGTTAC
982	AGCGCAAGATCTGGGGGCGAGTCAC	GTGACTGCCCCCAGATCTTGCGCT
983	GCGTACATCTGCTCATCAGCATGG	CCATGCTGATGAGCAGATGTACGC
984	CCTCTGTGGCAGGAAAGAAACCGT	ACGGTTTCTTTCCTGCCACAGAGG
985	CCTATGCAATGGACCTGCATCGGA	TCCGATGCAGGTCCATTGCATAGG
986	CTCGGTGGATGGCGAATAAGGATA	TATCCTTATTCGCCATCCACCGAG
987	CCTCACTCGTGATGGCGTGACGCA	TGCGTCACGCCATCACGAGTGAGG

A9

Serial No.: 09/940,185

Filed: August 27, 2001

988	TACGCTCACAGAACGCCATACGCC	GGCGTATGGCGTTCTGTGAGCGTA
989	CCGGAGAAGTTACGCGGATCGGAC	GTCCGATCCGCGTAACCTTCTCCGG
990	GCGCCCTCACTGCATTTTTGGTAT	ATACCAAAAATGCAGTGAGGGCGC
991	ACTTTCAGCACGCGAACAGCGCAA	TTGCGCTGTTGCGGTGCTGAAAGT
992	CTAAACGCCCTTGATGCATGAGCA	TGCTCATGCATCAAGGGCGTTTAG
993	GCTTGCCCTTTACGATCGTCGCTA	TAGCGACGATCGTAAAAGGCAAGC
994	CAGACATCGTACGCACTCGGCATC	GATGCCGAGTGCGTACGATGTCTG
995	TAGCCGCGCGGCTCCTATGCTCTT	AAGAGCATAGGAGCCGCGCGGCTA
996	GATGCCCTTTTGGTCCCCATGCCA	TGGCATGGGGACCAAAAGGGCATC
997	TGAGCTGCCCTTGCCACGATGCCTC	GAGGCATCGTGGAAGGCAGCTCA
998	CCGCCGTATACGTGCCATAGTTTG	CAAACATATGGCACGTATACGGCGG
999	TAGTGCTCTCCGCGCTCATCCAAC	GTTGGATGAGCGCGGAGAGCACTA
1000	CCCTAGATAAGTTGGGGTGGGACG	CGTCCCACCCCAACTTATCTAGGG
1001	TGAAGGGCCACCTGATATGGTTTC	GAAACCATATCAGGTGGCCCTTCA
1002	GCCGCCTCCGACTGGTTAACCCGA	TCGGGTAAACCAGTCGGAGGCGGC
1003	CGCACGGCTACTAACAGCGGATCA	TGATCCGCTGTTAGTAGCCGTGCG
1004	CCGGACCAATTCCAACGAGCATCG	CGATGCTCGTTGGAATTGGTCCGG
1005	CATTGAGGTCCACCGTTCACATCC	GGATGTGAACGGTGGACCTCAATG
1006	AGGACGCAGCATGTCCCAGCCGAG	CTCGGCTGGGACATGCTGCGTCCT
1007	TAATCGCGGGCCATACTACCAACG	CGTTGGTAGTATGGCCCGCGATTA
1008	CGCAAATTTCTCCGGTCGGCAAGC	GCTTGCCGACCGGAGAAATTTGCG
1009	GTGGCTCGACTAATGCCTTGCGTG	CACGCAAGGCATTAGTCGAGCCAC
1010	TGTGGGCGTGTTCCGGCTCACTGT	ACAGTGAGCCGGAACACGCCACA
1011	GTTCTTCCTTTTCTGCGGTGGGAA	TTCCCACCGCAGAAAAGGAAGAAC
1012	ACCTCGAGTCAGATTGTGCGCCTT	AAGGCGCACAATCTGACTCGAGGT
1013	CAAGTGGACAGACGGTTTGTTCCG	CGGAACAAACCGTCTGTCCACTTG
1014	TCCAGTTGAGTCGCGCCGACGAGG	CCTCGTCGGCGCGACTCAACTGGA
1015	CGCAACAGGTCAGCCCTTATTTGC	GCAAATAAGGGCTGACCTGTTGCG
1016	GCCGTGACTCCTGCAATGTCGGTA	TACCGACATTGCAGGAGTCACGGC
1017	ATCAGCGCAAGCTGGTCTGAAACA	TGTTTCAGACCAGCTTGCGCTGAT
1018	CCCTGGCCAGAACGAGAGGCCATG	CATGGCCTCTCGTTCTGGCCAGGG
1019	ACGATCAAGGACTCGTCAGGGTTG	CAACCCTGACGAGTCCTTGATCGT
1020	TTCATGGCACCAAGACCACCGTTA	TAACGGTGGTCTTGGTGCCATGAA
1021	ACAGCAAGGAGATGGATTGCGACG	CGTCGCAATCCATCTCCTTGCTGT
1022	CGTAAATATCTGCGGCGGTGTGAA	TTACACCCGCCGAGATATTTACG
1023	GGAAACACGTGTTCTGTGTTGGC	GCCAACAGACGAACACGTGTTTCC
1024	CGATGTTAGGATTGCGATAGGCCA	TGGCCTATCCGAATCCTAACATCG
1025	ATCGGACAAGGACAAGTGATGGT	ACCATCCAATTGTCCTTGTCGGAT

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1026	GCCCGGAGGACAAAGTTCGAGTTA	TAACTCGAACTTTGTCTCCGGGC
1027	AAATCCGACAAATGGGCACATGGA	TCCATGTGCCCATTTGTGCGATTT
1028	CAGTTAGGGGATGCGGATGAGTGA	TCACTCATCCGCATCCCCTAACTG
1029	CGGCAGGTGGAGATTCCGACATTG	CAATGTGCGAATCTCCACCTGCCG
1030	TAGGGCAGCCAGGTTCACTCATCT	AGATGAGTGAACCTGGCTGCCCTA
1031	GCACCGTATTAGCAGTAGGCACGC	GCGTGCCTACTGCTAATACGGTGC
1032	ACGCATTACAGGTGTGCGAAGGGA	TCCCTTCGCACACCTGTAATGCGT
1033	CGTGACTGCACGTGTTCCACAGGG	CCCTGTGGAACACGTGCAGTCACG
1034	GCTGAACTACCGCCTAAAATCGCG	CGCGATTTTAGGCGGTAGTTCAGC
1035	AGCACGCCAGGGAGGATCGAGTTA	TAACTCGATCCTCCCTGGCGTGCT
1036	ATGAGGGCAAGGAATGGGTCATGC	GCATGACCCATTCTTGCCCTCAT
1037	GGGTCTCTCGTAATCAAAGGCCGA	TCGGCCTTTGATTACGAGAGACCC
1038	TATCTTGCGCAACGCCTCCATTTA	TAAATGGAGGCGTTGCGCAAGATA
1039	GGTTACACCTACGGAATCCAGCGG	CCGCTGGATTCCGTAGGTGTAACC
1040	ACACCGAGTTGGTCCGGTCAATAG	CTATTGACCGGACCAACTCGGTGT
1041	TCCCAGATTAAACGCTAGCCACCG	CGGTGGCTAGCGTTTAATCTGGGA
1042	TTGGTGAAACTGGCCCGTCGGAAG	CTTCCGACGGGCCAGTTTCACCAA
1043	CCAGGGGAGTTGACAATGAGGCTG	CAGCCTCATTGTCAACTCCCCTGG
1044	TCTGCGTTATTGGACCGTTTGTCTG	CGACAAACGGTCCAATAACGCAGA
1045	TATGGGATGCTAAACCGGCGTACA	TGTACGCCGGTTTAGCATCCCATA
1046	CACAGACGTCTGTGCGGGCTTGTGT	ACACAAGCCCGACAGACGTCTGTG
1047	AGAATGCCGTTTCGCCTACTCCCGT	ACGGGAGTAGGCGAACGGCATTCT
1048	CGACGGATAATGCAGGCCTCATGA	TCATGAGGCCTGCATTATCCGTCTG
1049	ACCCTCTAAAGCAATAGGTCGGCG	CGCCGACCTATTGCTTTAGAGGGT
1050	CACTCACGGCAGAAGCCTGCTTGT	ACAAGCAGGCTTCTGCCGTGAGTG
1051	ATCAGCCACATATTCTCGGCCGT	ACGGCCGAGAATATGTGGGCTGAT
1052	CAAATCTGGGGTCGTCTAAACGC	GCGTTTAGGACGACCCAGATTTG
1053	TGTCGCCCATGGCAGGTTAAATAC	GTATTTAACCTGCCATGGGCGACA
1054	GGGGGCCCATCAATTCATTATCGA	TCGATAATGAATTGATGGGCCCCC
1055	GTCGAGCAGCTTTAGTATCGCGGG	CCCGCGATACTAAAGCTGCTCGAC
1056	CCGCTAAGCACCGAAGGCTCACAA	TTGTGAGCCTTCGGTGCTTAGCGG
1057	TAGAATTAGCGAACGGTGATCCCG	CGGGATCACCGTTCGCTAATTCTA
1058	CACATGACATTTGGCAAAGGTCCA	TGGACCTTTGCCAAATGTCATGTG
1059	TCAACGCACTGGCGATGACTAGAT	ATCTAGTCATCGCCAGTGCGTTGA
1060	CGGGAAATGTCTTTAGCCGTCGAA	TTCGACGGCTAAAGACATTTCCCG
1061	ATCAGAGCAAATCTGCAGCGGGGA	TCCCCGCTGCAGATTTGCTCTGAT
1062	GGCCTGTTTCTGTCCAAGTGGGCT	AGCCCAGTTGGACAGAAACAGGCC
1063	ATTTACCTCGCTGATCGCTTCCG	CGGAAGCGATCAGCGAGGTGAAAT

A9

Serial No.: 09/940,185
 Filed: August 27, 2001

1064	AGTGACGCCGAGTCGCGAGGGTTA	TAACCCTCGCGACTCGGCGTCACT
1065	AGTTGTCTCATCCTGTCCGGGACC	GGTCCCGGACAGGATGAGACAAC
1066	CTTCTTTGTGCACACTTGCCAGGG	CCCTGGCAAGTGTGCACAAAGAAG
1067	CACCTCATCGGAGCATAGCAACCC	GGGTTGCTATGCTCCGATGAGGTG
1068	ATGCGATCCATGACAAGGGTTGCT	AGCAACCCTTGTCTATGGATCGCAT
1069	CCCGTGGAGATGATGTGCGGCTTA	TAAGCCGCACATCATCTCCACGGG
1070	CCCAATAGACGCCACAGCCAGTGA	TCACTGGCTGTGGCGTCTATTGGG
1071	AACGACCACGACCCTCGCCGAGTA	TACTCGGCGAGGGTCGTGGTCGTT
1072	GGTGCTTTGTCTGAGGCGAGTGAA	TTCACTCGCCTCAGACAAAGCACC
1073	CTGTCGGCGCTGCTCTCCGAATTT	AAATTCGGAGAGCAGCGCCGACAG
1074	CTCGCCGGAGTGTTGTAAGCATTG	CAATGCTTACAACACTCCGGCGAG
1075	AGCAATCATGAGAGGTGGCCGGTG	CACCGGCCACCTCTCATGATTGCT
1076	ATTTGCCACCGGCGACAAAAGAT	ATCTTTTTGTGCGCCGGTGGCAAAT
1077	CCGCCCCGTGTTGGCATGTCTTTTG	CAAAAGACATGCCAACACGGGCGG
1078	ATCGGAAGTGCTGACTGACACACG	CGTGTGTCAGTCAGCACTTCCGAT
1079	CCTCAGACCCTATCTGGGTTGACG	CGTCAACCCAGATAGGGTCTGAGG
1080	CTGTGTGGTCTGGTCCGGCTGTTC	GAACAGCCGGACCAGACCACACAG
1081	GTCCCCATTATCGGTGAGTGCAAC	GTTGCACTCACCGATAATGGGGAC
1082	ACAGGCACGTAAGTGCTCAATCGG	CCGATTGAGCACTTACGTGCCTGT
1083	AGCAAGATAGCGGGAGTGCCCTA	TAGGGGCACTCCCGCTATCTTGCT
1084	GGTTTACGCCATGACATCCCGTCA	TGACGGGATGTCATGGCGTAAACC
1085	GTGCAGGCCTTTGTGTGTGAATCG	CGATTACACACAAAGGCCTGCAC
1086	CTTCGAGGGTAGGGCTTCGAAACG	CGTTTCGAAGCCCTACCCTCGAAG
1087	AGTCGACACTTGGGTTTACCACGG	CCGTGGTAAACCCAAGTGTGCACT
1088	ACATAAATCTCGCCCGCTGCACTC	GAGTGCAGCGGGCGAGATTTATGT
1089	GTTTGGTTTTCCACGGAGGTTTGA	TCAAACCTCCGTGGAAACCAAAAC
1090	GCAGGAACCAGATTAGTGTCCTCGG	CCGGGACACTAATCTGGTTCCTGC
1091	TTTGCTAGAGCGCGGAGCTAAAGC	GCTTTAGCTCCGCGCTCTAGCAAA
1092	CTATGTGGCATCGCTGACATGCTC	GAGCATGTCAGCGATGCCACATAG
1093	CCTAAGTCGGTTTGCAGCTGCTCT	AGAGCAGCTGCAAACCGACTTAGG
1094	GCGTTCGTCCACAGGAACGGAAGG	CCTTCCGTTCCTGTGGACGAACGC
1095	TAACCCGCGCCCGAGAAATTGTCT	AGACAATTTCTCGGGCGCGGGTTA
1096	TATGGTGCTCAGAGCTGTTGCCAA	TTGGCAACAGCTCTGAGCACCATA
1097	TCATCGACCCACTAACGTCAGGGC	GCCCTGACGTTAGTGGGTCGATGA
1098	TGCTCAAGCTACGCGTCACTTCCC	GGGAAGTGACGCGTAGCTTGAGCA
1099	AGCGGGAAGGTCTGAGGAGGGAAA	TTTCCCTCCTCAGACCTTCCCGCT
1100	CCGATGTAGCACCACCGCAGTGGC	GCCACTGCGGTGGTGCTACATCGG
1101	AAGTTCTGGGAATCACACGGCGCG	CGCGCCGTGTGATTCCCAGAACTT

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1102	CACCAGCCTTACGTGCGGCGTTAA	TTAACGCCGCACGTAAGGCTGGTG
1103	CGTTTCGCCTCCTCTTCCGAATGC	GCATTGGAAGAGGAGGCGAAACG
1104	GAGGAGGCCAATAGAGCAGCGCGC	GCGCGCTGCTCTATTGGCCTCCTC
1105	AGTAATCTTGCGGCACACAAGCGG	CCGCTTGTGTGCCGCAAGATTACT
1106	TGAGGACAAACCGCGCGTAGGATA	TATCCTACGCGCGGTTTGTCTCA
1107	TCGTAGAGACGCAGTGCCCATCTC	GAGATGGGCACTGCGTCTCTACGA
1108	CGAAGCTACACCCCGAGTGCGGTG	CACCGCACTCGGGGTGTAGCTTCG
1109	ATGATGTGATCTTCCCATGGCTGG	CCAGCCATGGGAAGATCACATCAT
1110	TGTACACGTATCGCGTTCGCCTAG	CTAGGCGAACGCGATACGTGTACA
1111	GGTGTGCTTTTACGCATGTACGCA	TGCGTACATGCGTAAAAGCACACC
1112	AGGCGGGATACGTGGATGCTAGCC	GGCTAGCATCCACGTATCCCGCCT
1113	AAATTAGGCACAGCCCTCCACAG	CTGTGGGAGGGCTGTGCCTAATTT
1114	ATAAGTTTGGTGAGCCATTCGCGA	TCGCGAATGGCTCACCAAATTAT
1115	CCTATTTTCGGCGGACCTCGATGCC	GGCATCGAGGTCCGCCGAAATAGG
1116	TTACCGGAATATGCACTTGCCGCG	GCGGCCAAGTGCAATTCCGGTAA
1117	CCTCTCGGACGGTCCCTTTGATCG	CGATCAAAGGGACCGTCCGAGAGG
1118	CAAGCGAATGCTGTATTACGGCCT	AGGCCGTAATACAGCATTGCTTG
1119	GCATTTCCCATGCCAGAACGTTGA	TCAACGTTCTGGCATGGGAAATGC
1120	GTTTTGGCTAACCGTCCTGCCTTG	CAAGGCAGGACGGTTAGCCAAAAC
1121	AGGTTTTGTCCGGGCGAATGATGT	ACATCATTGCCCCGGACAAAACCT
1122	ATGTCCACGAGTGCGTCCGATATC	GATATCGGACGCACTCGTGGACAT
1123	AGACGCGTACGAGGGTTCTGCGCC	GGCGCAGAACCCTCGTACGCGTCT
1124	AATACCGTTCCCATCTGTGCGAGG	CCTCGCACAGATGGGAACGGTATT
1125	ACACAAGGTGCCTCATCGAATGGT	ACCATTGATGAGGCACCTTGTGT
1126	GCCGGCAAATCCTACAAAATCCA	TGGATTTGTAGGATTTTGCCGGC
1127	CTTATCCCATGTGCCGGTCTGACT	AGTCAGACCGGCACATGGGATAAG
1128	GCGGCCATAATGCATAGCACGGAA	TTCCGTGCTATGCATTATGGCCGC
1129	TACGGTGCATCGCAGTATGGGTAA	TTACCCATACTGCGATGCACCGTA
1130	CACCAGATGTCGAGGATCATCGCC	GGCGATGATCCTCGACATCTGGTG
1131	GCTCCTACGCCCAAAGAGGTATGG	CCATACCTCTTTGGGCGTAGGAGC
1132	AGAATATGGGCAGCAGCAGCACTC	GAGTGCTGCTGCTGCCCATTCT
1133	CTGCAGTCGCACGCAGTAGACCCG	CGGGTCTACTGCGTGCGACTGCAG
1134	ATGTCCCTGACCGGAATCTTTCCA	TGGAAAGATTCCGGTCAGGGACAT
1135	TTCGCCACGAGGCATTAGTCCGAC	GTCGGACTAATGCCTCGTGGCGAA
1136	ACGTCGTTCCCGAGAATACGGTCT	AGACCGTATTCTCGGGAACGACGT
1137	ATCCGCTGGCGCTTTGACGAAGAA	TTCTTCGTCAAAGCGCCAGCGGAT
1138	TGAACCAAATTCTTACCGCGTGGA	TCCACGCGGTAAGAATTTGGTTCA
1139	CACGCGTAGGCTGGTGTGTCATTC	GAATGACACACCAGCCTACGCGTG

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1140	TCGATCCCGCGATCTGGCCTATTG	CAATAGGCCAGATCGCGGGATCGA
1141	GGAACACTCAACCACCGTGGATCT	AGATCCACGGTGGTTGAGTGTTC
1142	TCACACACCAACTGGCCACAGATG	CATCTGTGGCCAGTTGGTGTGTGA
1143	TGTGCTTAGGACACCAGGCAACCC	GGGTTGCCTGGTGTCTTAAGCACA
1144	GACATTTAACCCGACCGATTGTGC	GCACAATCGGTGCGGTAAATGTC
1145	GGCACCAGGCCAGTAGGCCTCTGA	TCAGAGGCCTACTGGCTCGGTGCC
1146	CTCAAGCGTGCATGTTGGTAACCA	TGGTTACCAACATGCACGCTTGAG
1147	AGGAAGGCCACCATCCAATATTCG	CGAATATTGGATGGTGGCCTTCCT
1149	TACGAACGCCAAGGTTATGCCAAT	ATTGGCATAACCTTGGCGTTTCGTA
1150	CGCACCAGAGTTATGCAGGCTCAA	TTGAGCCTGCATAACTCTGGTGCG
1151	CCAGCTTGGACGAGGAAGGATGTG	CACATCCTTCCTCGTCCAAGCTGG
1152	GTCACGCCTTTCAAATGACCCACA	TGTGGGTCATTTGAAAGGCGTGAC
1153	TGCTAGACCCAGCCCGAGTCTCGG	CCGAGACTCGGGCTGGGTCTAGCA
1154	TATTGTGGCACTTGGGTCCAGTGC	GCACTGGACCCAAGTGCCACAATA
1155	CACGTGTGAGACCGGAAGTGCATC	GATGCACTTCCGGTCTCACACGTG
1157	GGCAGCCTGATGCTACAGCACCGT	ACGGTGCTGTAGCATCAGGCTGCC
1158	CGGTCCGTCCATCCTTCAGAGTTA	TAACCTGAAGGATGGACGGACCG
1159	CTATTCGCGGACCCTACGCAGTTT	AAACTGCGTAGGGTCCGCGAATAG
1160	ACCTGTGCAGTCAGCACGAGTGCG	CGCACTCGTGCTGACTGCACAGGT
1161	GAGAACCACAGGTGGTCCACCCTA	TAGGGTGGACCACCTGTGGTTCTC
1162	CCTCGCTAGAGAAATCCACGGGAT	ATCCCGTGGATTTCTCTAGCGAGG
1163	TAACATCGGTGCAAACCGTGCGC	GCGCCACGGTTTGACCCGATGTTA
1164	ACCCAGAAGACATGGCATTGCGCT	AGGCGAATGCCATGTCTTCTGGGT
1165	AAAAGCGCTGCTCTAACACCGCCG	CGGCGGTGTTAGAGCAGCGCTTTT
1166	CAAGTCTGTCCATTTCCCAACGGT	ACCGTTGGGAAATGGACAGACTTG
1167	CCGACACATGGTGGGCTTTTTAAG	CTTAAAAAGCCCACCATGTGTGCGG
1168	ACAGACCAGCTTTTTGCGCAGATT	AATCTGCGCAAAAAGCTGGTCTGT
1169	CGGCGATCCATTTCACTTCAAAGT	ACTTTGAAGTGAAATGGATCGCCG
1170	GACGTTATCATGACACAGGTCGCG	CGCGACCTGTGTCATGATAACGTC
1171	GGCAGAGTTGGATCGGATCCTCAA	TTGAGGATCCGATCCAACCTCTGCC
1173	CCTCAATGCCACCGAATTCGGTAT	ATACCGAATTCGGTGGCATTGAGG
1174	GGAGTTAGCGTGATTAGTCGCCCA	TGGGCGACTAATCACGCTAACTCC
1175	GAACCTGACGTGTCACGGAAGGGT	ACCCTTCCGTGACACGTCGAGTTC
1176	CACAAGCGACATTTCTGGTGCACG	CGTGCACCAGAAATGTGCTTGTG
1177	CCAGAATGCGTGAATTCGCGTCCT	AGGACGCGAATTCACGCATTCTGG
1178	CAAGGGAGCCCTGCGAATTAGAGT	ACTCTAATTCGAGGGCTCCCTTG
1179	ATTCTTGCTTCGGACGACTAGCCG	CGGCTAGTCGTCCGAAGCAAGAAT
1180	TGCCACTTTGATTTCCAGATTGCC	GGCAATCTGGAAATCAAAGTGGCA

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1181	GATGGTCGGCAGATAAGTGGTGGG	CCCACCACTTATCTGCCGACCATC
1182	GTTACACACGGGTTGACCAACATGT	ACATGTTGGTCAACCCGTGTGAAC
1183	GATTCAATTGCCCCATTCTGTCAT	ATGCAGGAATGGGGCAATTGAATC
1184	TACCGGAAACTGAGCCTCGTGCTA	TAGCACGAGGCTCAGTTTCCGGTA
1185	GGATCTTTACTCAGGGGCAGAGCC	GGCTCTGCCCTGAGTAAAGATCC
1186	CGCGAGTGCTTTGTTCTGTGTGGA	TCCACACAGAACAAAGCACTCGCG
1187	GTCGTGCGGATGGCGTACATCCTT	AAGGATGTACGCCATCGCGACGAC
1188	ACGGGAATCTCCCGAAGTGCGAGC	GCTCGCACTTCGGGAGATTCCCGT
1189	GGTCGAAATGAGCCAGCAGCAGAT	ATCTGCTGCTGGCTCATTTGACC
1190	CCATTGGAATACTGCGTGCGGCTT	AAGCCGCACGCAGTATTCCAATGG
1191	GGAAGACTTCGCGAGGGGCACAATG	CATTGTGCCCTCGCGAAGTCTTCC
1192	AGGGTGACTTCGAAGGTCCGAACT	AGTTGCGACCTTCGAAGTCACCTT
1193	TCGTCCCTCTGGTGGTCGAATCAC	GTGATTCGACCACCAGAGGGACGA
1194	TGTGCAAATTATGCTGGGCGTGAG	CTCACGCCCAGCATAATTTGCACA
1195	GTCGCCAACTGTCATGTGTGCCCA	TGGGCACACATGACAGTTGGCGAC
1196	CCTCGAACCTCAAGACGAAACGA	TCGTTTCGTCTTGAGGGTTCGAGG
1197	CTTCATCACGTGACCTTTGTTGCC	GGCAACAAAGGTCACGTGATGAAG
1198	CCTTCATTCCCAGCAGGATGGCTT	AAGCCATCCTGCTGGGAATGAAGG
1199	CGGGGACCTCAATGGAGCGTCTTA	TAAGACGCTCCATTGAGGTCCCCG
1200	CGCCTCTAGCGCTTGTTACGTCGA	TCGACGTAACAAGCGCTAGAGGCG
1201	CTGCCAGACTCAAAACAGGGACGG	CCGTCCCTGTTTTGAGTCTGGCAG
1202	CTCCTTACACCGTGTGAGGGAACC	GGTTCCTCACACGGTGTAAAGGAG
1203	TTTCATGCCATATCGCCTCGCGCA	TGCGCGAGGCGATATGGCATGAAA
1205	GTCTGACTGTCTGCCCTGTATGCG	CGCATACAGGGCAGACAGTCAGAC
1206	GGTTAATGGAACGGCGTTAACGCG	CGCGTTAACGCCGTTCCATTAACC
1207	CTTCGCACTGCGGAATCTCAAGCT	AGCTTGAGATTCCGCAGTGCGAAG
1208	TGCCAGAGGCGTAGGAGTCCTGGA	TCCAGGACTCCTACGCCTCTGGCA
1209	GACGGGCGAGCCAGTATTAACCTCA	TGAGTTAATACTGGCTCGCCCGTC
1210	GACCTCCAAAGTCAGTCTTGGCGG	CCGCCAAGACTGACTTTGGAGGTC
1211	CGTTAGAGCATGACCGAACACGTC	GACGTGTTGCGTCATGCTCTAACG
1212	GTGGGCTCAAAAATTGGGTACGCC	GGCGTACCCAATTTTTGAGCCCAC
1213	GGGGCAGAGATCACGCGTTCCTCT	AGAGGAACGCGTGATCTCTGCCCC
1214	TTTCGCCCTACGAAGCGAAGTTTC	GAAACTTCGCTTCGTAGGGCGAAA
1215	TACGGGGTGATGTAAAGCTACGCG	CGCGTAGCTTAACATCACCCCGTA
1216	CCTGTGAGTCTGAGATCGCCGTGT	ACACGGCGATCTCAGACTCACAGG
1217	ACTGAAGCTGGAACAGGCCATTCTG	CGAATGGCCTGTTCCAGCTTCAGT
1218	AGCACTGGTTCACATGGGAGTCCA	TGGACTCCCATGTGAACCAAGTCT
1219	TAAGGAAGATCACACTCCCTGCGC	GCGCAGGGAGTGTGATCTTCCTTA

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1220	CACCACACGCTAAAATTGAAGCCG	CGGCTTCAATTTTAGCGTGTGGTG
1221	GCTGTCGCCAGGATCATGTATCGT	ACGATACATGATCCTGGCGACAGC
1222	TTCGTTCTGTCACCTGGATTCTTGA	TCAAGAATCCAGTGCACGAACGAA
1223	TCAGCTCTCCTTGTGCTTGCACTG	CACTGCAAGCACAAGGAGAGCTGA
1224	ACGACGAGGTGAACTTCGTGGGAA	TTCCCACGAAGTTCACCTCGTCGT
1225	AGCATTGCCGCGGGCCTTGTTTA	TAAACCAAGGCCCGCGGCAATGCT
1226	CAGAGGGCAGATGTGACTCCTCAA	TTGAGGAGTCACATCTGCCCTCTG
1227	CGATATTTTCAGCCTCTCAAACGCG	CGCGTTTGAGAGGCTGAAATATCG
1228	TGCCAGAAATGTTGCCGATTGAA	TTCAATCGGCAACATTTCTGGCA
1229	TAGGCCACCCGGTGTTACAAATTC	GAATTGTGAACACCGGGTGGCCTA
1230	GAGAGTCAGACCGAGGGACACGAG	CTCGTGTCCCTCGGTCTGACTCTC
1231	GAGGCGATCCTGGAACCACGCAAC	GTTGCGTGTTCCAGGATCGCCTC
1232	CCAGAGAGGCGGGCTACTGACTCA	TGAGTCAGTAGCCCGCCTCTCTGG
1233	CACACAGTCCCATCGTACGGCAGT	ACTGCCGTACGATGGGACTGTGTG
1234	TTACGTTGCGGAAGCGTGCCTCTA	TAGAGGCACGCTTCCGCAACGTAA
1235	ATGTACACGCTGCAATCGTGTCCC	GGGACACGATTGCAGCGTGTACAT
1236	ACTCGTCGTCGGAAGCGCCAGGT	ACCTGGGCGCTTCCGACGACGAGT
1237	ATGCGAGAGCAGAATTGAGCCGGT	ACCGGCTCAATTCTGCTCTCGCAT
1238	AAGTTGGTTCGTATTCACGCGTGC	GCACGCGTGAATACGAACCAACTT
1239	TGGGCTTATCGCCGAAGATTGCTA	TAGCAATCTTCGGCGATAAGCCCA
1240	CAACGGCGAAGACCCAGAATTTTA	TAAAATTCTGGGTCTTCGCCGTTG
1241	AGCGTACGGCGAAAGTCTAGGGAC	GTCCCTAGACTTTCCGCCGTACGCT
1242	ATGCATCCAGCGTCCCCTTGATTA	TAATCAAGGGGACGCTGGATGCAT
1243	ACCGTCATCAGTCGCAGGCTTCTG	CAGAAGCCTGCGACTGATGACGGT
1244	TCTTGACGGCTGGGCATGATTGGA	TCCAATCATGCCAGCCGTCAAGA
1245	TTAACATTGCGACCCAGGACCTGG	CCAGGTCCTGGGTCCGAATGTTAA
1246	TGGTGTGCAACTCCCTTGCGTGTT	AACACGCAAGGGAGTTCGACACCA
1247	TACTCCAGTCGCCTGCGCGCAAC	GTTTGCGCGCAGGCGACTGGAGTA
1248	CGCAATGCCGTAAGCATGCCAAGC	GCTTGGCATGCTTACGGCATTGCG
1249	AGTCCGCGCGAAATACGAACAGTA	TACTGTTCTGATTTTCGCGCGGACT
1250	ATGTTGCACGCGCACTGTATCACA	TGTGATACAGTGC GCGTGCAACAT
1252	ATCGCCTAACTACCCGCGGCGTGC	GCACGCCGCGGGTAGTTAGGCGAT
1253	TGGCCAGGGAACACAAGCTCGGTA	TACCGAGCTTGTGTTCCCTGGCCA
1254	AAACATGGGTGCGCTCTGAGATCA	TGATCTCAGACGCGACCCATGTTT
1255	GCGAGAGCTGCGATTCCCTTTTAG	CTAAAAGGGAATCGCAGCTCTCGC
1256	CCGGCCAAACAAGAGACGAGCGGA	TCCGCTCGTCTCTTGTGTTGGCCGG
1257	AATGGGGCACAGTCTCGCTTGACA	TGTCAAGCGAGACTGTGCCCCATT
1258	TGTCTCGGGCCTTCAGGACACACT	AGTGTGTCCTGAAGGCCCGAGACA

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1259	TCCACCTTCATTAAGTGGTTCGGC	GCCGAACCACTTAATGAAGGTGGA
1260	GCTTCGGAATCATCCACCTGTCAT	ATGACAGGTGGATGATTCCGAAGC
1261	GAGCCGATGGGCTATCGTCGTCGG	CCGACGACGATAGCCCATCGGCTC
1262	CACGAATTACGCACGCACAGAGGA	TCCTCTGTGCGTGCGTAATTCGTG
1263	GCTGTGACGCTCCCCTCAACTAGG	CCTAGTTGAGGGGAGCGTCACAGC
1264	CGCTCTGAAAACGCGGGCTACGTT	AACGTAGCCCGCGTTTTTCAGAGCG
1265	GAGTGCTGGACACCGTAGCCAGGA	TCCTGGCTACGGTGTCCAGCACTC
1266	CCAACCCAGTGTAGGCGCAAATG	CATTTGCGCCTACACTGGGGTTGG
1267	GAAGTAGGGGATGTTGGCCGGCGG	CCGCCGGCCAACATCCCCTACTTC
1268	CAACGTGGGCACCTGTTTTAGCAG	CTGCTAAACAGGTGCCACGTTG
1269	CTAGCTGCGATCCGAACCTCTACG	CGTAGAGGTTCCGATCGCAGCTAG
1270	CATTGAACCATCAGCCAAGCTGCG	CGCAGCTTGGCTGATGGTTCAATG
1271	AGACTGGCAATTTTTTCGAGGCCAA	TTGGCCTCGAAAAATTGCCAGTCT
1272	CTGGCCGTCCATGAGTTGGTCCAG	CTGGACCAACTCATGGACGGCCAG
1273	CATGCTGAAACACGGGATTGCCAT	ATGGCAATCCCGTGTTTCAGCATG
1274	CGATATGTAAGACAGCCGTCGCAA	TTGCGACGGCTGTCTTACATATCG
1275	AGCGTAACCTACTGGGAAGGCACC	GGTGCCTTCCAGTAGGTTACGCT
1277	GTTCTGAACCCCGCGATGTAAATG	CATTTAACATCGCGGGGTTCTGAAC
1278	GTTGTTAGGAGGCTCGAGGCTGCT	AGCAGCCTCGAGCCTCCTAACAAC
1279	ACTGGTGCTACGCGGGATATTTGA	TCAAATATCCCGCGTAGCACCAGT
1280	CTGGGAGCTATCCTCAGCCGAATC	GATTCCGGCTGAGGATAGCTCCCAG
1281	GAACCTCGCCGCTGCCGAAGGGTAG	CTACCCTTCGGCAGCGGCGAGTTC
1282	TTCGATCGAGGAGCAAGGAGAGTC	GACTCTCCTTGCTCCTCGATCGAA
1283	GGGGAAAATTGAGGCCTTAGCCAT	ATGGCTAAGGCCTCAATTTCCCC
1284	CTAAGGTCAAAGCGCTGTCGCCAG	CTGGCGACAGCGCTTTGACCTTAG
1286	CCGTAGCGGTGCTCGACCAGGTTT	GAACCTGGTCGAGCACCGCTACGG
1287	TGGGGACGAATCCGAATGTAGTGA	TCACTACATTTCGGATTTCGTCCCA
1288	GTCATGTAATTGCATCCCACGGGT	ACCCGTGGGATGCAATTACATGAC
1289	CTTTGCGCGGTGGTCAATAAAAAG	CTTTTTATTGACCACCGCGCAAAG
1291	CTCGGGGATGCCCTCTTGGCATTA	TAATGCCAAGAGGGCATCCCCGAG
1292	CGAAACGTGGTGCAAAACCTGAA	TTCAGGTTTCTGCACCACGTTTCG
1293	GGAGTTCACGAGTCGAGCAGTCGC	GCGACTGCTCGACTCGTGAACCTC
1294	AGCCGTTTTCAAAGATCTCGACGA	TCGTCGAGATCTTTGAAAACGGCT
1295	TGGCTGGACATTGTCTGCAATGCA	TGCATTGCAGACAATGTCCAGCCA
1296	ATCGGCTGCCTCAGTCCCTAATTT	AAATTAGGGACTGAGGCAGCCGAT
1297	CCAGCATGGAGTTAAGTGAGCGCG	CGCGCTCACTTAACCTCATGCTGG
1298	TTCATATTTACGAATGCCGGGTGC	GCACCCGGCATTTCGTAAATATGAA
1299	CGAAATCGCACAGGAATTCGCGTC	GACGCGAATTCCTGTGCGATTTCG

A9

Serial No.: 09/940,185

Filed: August 27, 2001

A9

1300	GGCAATTTTCGGGACACTCGTTTCA	TGAAACGAGTGTCCCGAAATTGCC
1301	TTTGTGATTGGGGGTATAACCCGA	TCGGGTATACCCCCAATCACAAA
1302	CCCAGCTAATCCAGCTTGGGCTGT	ACAGCCCAAGCTGGATTAGCTGGG
1303	AAAATCGTTTGGCTGTAACGTCGC	GCGACGTTACAGCCAAACGATTTT
1304	AGGAGATTCATCGACTTCCGGGAA	TTCCCGGAAGTCGATGAATCTCCT
1305	GCACGGGGTCTCAATGCTTAGGGT	ACCCTAAGCATTGAGACCCCGTGC
1306	GCGCAACAAGTAGCCTACCGAGGC	GCCTCGGTAGGCTACTTGTTCGCG
1307	TAGCAGGCTGATGCCGTCTACACA	TGTGTAGACGGCATCAGCCTGCTA
1308	GCAAGCGGCGATCGTACAACCTTGT	ACAAGTTGTACGATCGCCGCTTGC
1309	GCACCTCTGGTAAGCCTGAAAGGG	CCCTTTCAGGCTTACCAGAGGTGC
1310	CGAGGGCGGTGAGTGCATACCGTG	CACGGTATGCACTCACCGCCCTCG
1311	GGATTAACCGGAACCTGCCCTTCTG	CAGAAGGGCAGTTCCGGTTAATCC
1312	GATATTGGGTCCGGCGCGCATTAC	GTAATGCGCGCCGGACCCCAATATC
1313	GGCCTTTAATCTCCGGTCGCAATG	CATTGCGACCGGAGATTAAAGGCC
1314	AACCTTAGTGCGGCTAGGTGGGGT	ACCCACCTAGCCGCACTAAGGTT
1315	CACGCTGACGCCAGTGTGGTGAGG	CCTCACCACACTGGCGTCAGCGTG
1316	GGTTCCCTTGACCCACCGAATTGA	TCAATTCGGTGGGTCAAGGGAACC
1317	TTCTGACAACATCGACCCTGGCTC	GAGCCAGGGTTCGATGTTGTCAGAA
1318	GCGAGCGAAGATAATCCCCAACT	AGTTTGGGGATTATCTTCGCTCGC
1319	GTA CTCTGTGCAACGGTCCCGAGT	ACTCGGGACCGTTGCACAGAGTAC
1320	ACACGCCAGGAACAGTGTCTGTGA	TCACAGACACTGTTCTGGCGTGT
1321	AAGGGAATTTAGCGCGCGTGA CTT	AAGTCACGCGCGCTAAATTCCCTT
1322	TGACGTACGCGTTTTAAGTGGGGA	TCCCCACTTAAAACGCGTACGTCA
1323	CTTAGAGGGACGAGGCCATGAATG	CATTCATGGCCTCGTCCCTCTAAG
1324	GGACGACTCCGCAAAAAGGTCGT	ACGACCTTTTTTTCGCGAGTCGTCC
1325	TCAATCCCAACATCCAAAGCCTCA	TGAGGCTTTGGATGTTGGGATTGA
1326	GCACTGGTCTACCAAGCTTGTCCC	GGGACAAGCTTGGTAGACCAGTGC
1327	ACTTGTGCGAAACGAGACCGAGCA	TGCTCGGTCTCGTTTCCGACAAGT
1328	TCAGGAAAGGCCTAAAGGCGAAAG	CTTTCGCCTTTAGGCCTTTCCTGA
1329	GGAATGTAGTCAAGGAGGACGGGG	CCCCGTCCTCCTTGACTACATTCC
1330	GCACGTGGTAAATGAATTGGCGAG	CTCGCCAATTCATTTACCACGTGC
1331	GATCATCAGGGGTATGCGTCGCG	CGCGACGCATAACCCCTGATGATC
1332	CTCACTCATTCTGATTGCCCGCGG	CCGCGGGCAATCAGAATGAGTGAG
1333	GGGGTGATCTCTCGAACGTCACCC	GGGTGACGTTTCGAGAGATCACCCC
1334	AAGGTTGCTGCTAGCGTACCTCGA	TCGAGGTACGCTAGCAGCAACCTT
1335	TATAGATCGCCCAACAGGCAGGAG	CTCCTGCCTGTTGGGCGATCTATA
1336	GTTTGGACCTGTTGGGAGTGGGCA	TGCCCACTCCCAACAGGTCCAAAC
1337	ATTGGGGAAAACCCGGTCTCAAGG	CCTTGAGACCGGGTTTTCCCAAT

Serial No.: 09/940,185

Filed: August 27, 2001

A9

1338	TCGACGATAAAGTGCTCACGGGAC	GTCCCGTGAGCACTTTATCGTCA
1339	CGATAGAATTCAATGCAGGGCGGA	TCCGCCCTGCATTGAATTCTATCG
1340	CGGTTCGCTACGGCGGCTGGTTTC	GAAACCAGCCGCCGTAGCGAACCG
1341	CCAGGTTTCGGTTAGTCGCGCTAG	CTAGCGCGACTAACCAGAACCTGG
1342	ACGACCTTACACTCGGATCCGACG	CGTCGGATCCGAGTGTAAGGTCGT
1343	TCGCGTTAAATGGACCAAGGGGCC	GGCCCCTTGGTCCATTTAACGCGA
1344	CCAGAAAGAAAATGGCGCCCGGAT	ATCCGGGCGCCATTTTCTTTCTGG
1345	GATACATCGCCGCTGCTAGGCAC	GTGCCTAGCAGGCGGCGATGTATC
1346	GAGATCACACTCGGAAACCGGATG	CATCCGGTTTCCGAGTGTGATCTC
1347	ACTTCGCGGAAAAAGGCTGGCATT	AATGCCAGCCTTTTTCCGCGAAGT
1348	CCGAGCTGCACGAGCACACAAAGT	ACTTTGTGTGCTCGTGCAGCTCGG
1349	TTCCACAAGGCGGCATAGTGAGGC	GCCTCACTATGCCGCCTTGTGGAA
1350	AGCAAACCTGGAATCCGGAAAAACC	GGTTTTTCCGGATTCCAGTTTGCT
1351	CGCTATGTGCGCAGCATGCATTTAC	GTAAATGCATGCTGCGACATAGCG
1352	AGTCACGCCCAACGTCGGTCTTT	AAAGAACCGACGTTGGGCGTGA
1353	AGTGGGCGCACTTGGCCTTAAATA	TATTTAAGGCCAAGTGCGCCCACT
1354	ACTTGCAACTTCGGCCGTTTGACT	AGTCAAACGGCCGAAGTTGCAAGT
1355	CAAACATCAGGTTTCATGCCGTACG	CGTACGGCATGAACCTGATGTTTG
1356	AGCGTGACCACCCTACAATGGCAA	TTGCCATTGTAGGGTGGTCACGCT
1357	GCAGGCATCCGGCAGAGATGTCTC	GAGACATCTCTGCCGGATGCCTGC
1358	GAGCGGCTAAGAGGGCCAGACCAA	TTTGGTCTGGCCTCTTAGCCGCTC
1359	CACAGAACAGGGTGTTTCCCGCTA	TAGCGGGAAACACCCTGTTCTGTG
1360	ACTTTGCAGAAGGCCCAACACAAG	CTTGTGTTGGGCCTTCTGCAAAGT
1361	CCTTCCTGGTACTTTGTGGGCGAC	GTCGCCCACAAAGTACCAGGAAGG
1362	CTACATGCTCACCCACAGAGTG	CACTCTGGTGGGGTGAGCATGTAG
1363	ATTTTCAGAATAGCCCCGCCTCGA	TCGAGGCGGGGCTATTCTGAAAAT
1364	CAATTGCTACGTTGACGCCCTCTG	CAGAGGGCGTCAACGTAGCAATTG
1365	CTGTGCGCTAATCCTCGGTGGCCG	CGGCCACCGAGGATTAGGCGACAG
1366	TTTGTGTTGGCTCCGTACATTGGA	TCCAATGTACGGAGCCAACACAAA
1367	ACGTGACGGGAAGGTGGTTGAATC	GATTCAACCACCTTCCCGTCACGT
1368	AGTTCTTGCGTTGCACGAAACAGA	TCTGTTTCGTGCAACGCAAGAACT
1369	GCTCGCCGCGCGTCTTTATGTCTG	CAGACATAAAGACGCGCGGCGAGC
1370	ATGAACATCGCGAGGCAAGCCTTT	AAAGGCTTGCCTCGCGATGTTTAT
1371	CAACCGCGCCACCAACATTAAGG	CCTTAATGTTGGTGGGCGCGGTTG
1372	TGATCGAGGACGGCTTGGTAGCCT	AGGCTACCAAGCCGTCTCGATCA
1373	GGAGGCATGCCTTCCGAGAGCAAC	GTTGCTCTCGGAAGGCATGCCTCC
1374	CACCGATCCTCAACGCAATTGCTA	TAGCAATTGCGTTGAGGATCGGTG
1375	GGCCATGAATTGGGAAATCCATGT	ACATGGATTTCCTAATTCATGGCC

Serial No.: 09/940,185

Filed: August 27, 2001

1376	CTGTTCCAGGCGTAACCAGCGGGC	GCCCGCTGGTTACGCCTGGAACAG
1377	TATGTCTGGCTCGCCATCAGAAGA	TCTTCTGATGGCGAGCCAGACATA
1378	GGAGTGACCAGCACAAAGCATCGAG	CTCGATGCTTGTGCTGGTCACTCC
1379	TCGGACTGGAAGTAACTCGCATGA	TCATGCGAGTTACTTCCAGTCCGA
1380	GTAGGGTCAAGCACGATTGAAGCC	GGCTTCAATCGTGCTTGACCCTAC
1381	CACCGGCGGTTTCTACTAACGTGAC	GTCACGTTAGTCGAACCGCCGGTG
1382	GAATGACGCGCAGTGCATTTGAAC	GTTCAAATGCACTGCGCGTCAATC
1383	GTGCTCGTCTAACCGCGGATAGAG	CTCTATCCGCGGTTAGACGAGCAC
1384	GCGGACCTGGGTAAATTGACGCGC	GCGCGTCAATTAACCCAGGTCCGC
1385	TTTTTGATGTTGCGCACCGGGCTA	TAGCCCGGTGCGCAACATCAAAAA
1386	TTGCGTCAGCGCATCTGCTCGATT	AATCGAGCAGATGCGCTGACGCAA
1387	ATGAGCACGCCAGTTCGTTCTTT	AAAGGAACGAAGTGGCGTGCTCAT
1388	TCAACGGTAAAGAATCGCCCCGCA	TGCGGGGCGATTCTTTACCGTTGA
1389	CGCGATTGACTGAACCACACCTCT	AGAGGTGTGGTTCAGTCAATCGCG
1390	GCGTGAAAGATGACGGCCGGTATA	TATACCGGCCGTCATCTTTCACGC
1391	CATGATTCCACCTCGATCGGCTAG	CTAGCCGATCGAGGTGGAATCATG
1392	CTACGACAAAGCAACCGTGCAAAA	TTTTGCACGGTTGCTTTGTCGTAG
1393	ATGCCGTGTTTCATCTTGATGGTCC	GGACCATCAAGATGAACACGGCAT
1394	TTCGTGGAGGGACTTTGGAGATCC	GGATCTCCAAAGTCCCTCCACGAA
1395	GAAGCGCCGTAAACGTACACCGTCG	CGACGGTGTACGTTACGGCGCTTC
1396	AGCGTGCGCTTGGCTATAAGGCTA	TAGCCTTATAGCCAAGCGCACGCT
1397	ACAGTCAGGAGTAACGCCGCTCAA	TTGAGCGGCGTTACTCCTGACTGT
1398	TTTAGCCGCTGCGACTGTAGGAAA	TTTCCTACAGTCGCAGCGGCTAAA
1399	ACTGTGTCGCAATCAACCCGCAAA	TTTGCGGGTTGATTGCGACACAGT
1400	TGCAGCCAATGCGGAACCTAGAGG	CCTCTAAGTTCCGCATTGGCTGCA
1401	CCCCTATCCCGGTCTTGCGAGTTC	GAAGTGAAGACCGGGATAGCGGG
1402	GAGGGCGCAACATATGCAGTGCTG	CAGCACTGCATATGTTGCGCCCTC
1403	CGTACGGACATCGATGACGCAACG	CGTTGCGTCATCGATGTCCGTACG
1404	AGTCTCCCGAGAAACGCATAAGGC	GCCTTATGCGTTTCTCGGGAGACT
1405	AGGAAGTGGATGAACGCGGCTGCA	TGCAGCCGCGTTCATCCACTTCCT
1406	GGGTTGCTCACCCCTCGTCATCAGG	CCTGATGACGAGGGTGAGCAACCC
1407	TAGGAATGCGAGTTCCGGCGGTAA	TTACCGCCGGAAGTCCGATTCTTA
1408	CTCCTCACTTCCAAGCTGCGGATA	TATCCGCAGCTTGGAAGTGAGGAG
1409	TCAATAGCACCTAGCATGCTCCCG	CGGGAGCATGCTAGGTGCTATTGA
1410	TGATTCTGCGCTTTCACAGGTGCG	CGACCTGTGAAAGCGCAGGAATCA
1411	GTATGTGCGGGATGGAAATCACGC	GCGTGATTTCCATCCCGCACATAC
1412	TACGGCAACTGTGATACGAGGGC	GCCCTCGTATCGACAGTTGCCGTA
1413	GGTTCCCTATCCAGCACTCCTCGC	GCGAGGAGTGCTGGATAGGGAACC

Serial No.: 09/940,185

Filed: August 27, 2001

A9

1414	ATAAGCGCGCCACAGGTATGTACC	GGTACATACCTGTGGCGCGCTTAT
1415	GAAAGTCGCCAACAGACTCGAGCA	TGCTCGAGTCTGTTGGCGACTTTC
1416	CGCTAATGCCTCATAGGCGTGTGC	GCACACGCCTATGAGGCATTAGCG
1417	ATCCCCGCCGCACGAAGTACCAAG	CTTGGTACTTCGTGCGGGCGGGGAT
1418	GACGCTGCTGATGGCTTTATCGAT	ATCGATAAAGCCATCAGCAGCGTC
1419	CTCTCCCCGTCGCTTCAGAGATTA	TAATCTCTGAAGCGACGGGGAGAG
1420	TCATGTGGGCGCTCGTATCAGTTT	AAACTGATACGACGGCCCATGA
1421	GGCCTGAAGGTGAATGGTTACGTG	CACGTAACCATTACCTTCAGGCC
1422	AGCCTCCAAAGCCGGTAGAGTTCC	GGAAGTCTACCGGCTTTGAGGGCT
1423	TTGTCGTAGGCGCTCACCTTAGGA	TCCTAAGGTGAGCGCCTACGACAA
1424	GCCTGAGTCCGGGTCGGGAAAGAA	TTCTTTCCCGACCCGGACTCAGGC
1425	GGCACTATACCGGTTCTGGACGCG	CGCGTCCAGAACCGGTATAGTGCC
1426	CCGTGTATACGGAAAGGTACGCCA	TGGCGTACCTTTCCGTATACACGG
1427	CCCAAGGCAAGTGTGCATCAGTCC	GGACTGATGCACACTTGCCTTGGG
1428	GGAGTGCATCATGGCCAAATCTGG	CCAGATTTGGCCATGATGCACTCC
1429	CCATGTTACGTCTGCGCACCACAG	CTGTGGTGCGCAGACGTAACATGG
1430	GGCGTTGAGCTTAAAGCAGCGAC	GTCGCTGCTTTTAAGCTCAACGCC
1431	TTGGCACTCTGCAAGATACGTGGG	CCCACGTATCTTGCAAGTGCCTAA
1432	GATCTGCACTGCAAGGTCTTGGGG	CCCCAAGACCTTGCAAGTGCCTAA
1433	CGATCAACTTGCGGCCATTCTCTGC	GCAGGAATGGCCGCAAGTTGATCG
1434	CGGCTGGGGTCACAGAAACGAGTA	TACTCGTTTCTGTGACCCAGCCG
1435	GCGGCTAGTTGTACCTAGCGGCTG	CAGCCGCTAGGTACAAGTGCCTAA
1436	TCGTCACTGTTAGAGAGGCCTCCG	CGGAGGCCTCTCTAAGTGCCTAA
1437	AGTGTCGTGAGCCCTAGCGGCGCT	AGCGCCGCTAGGGCTCACGACACT
1438	AGGACGCAGGGATTCAAGTGAAC	GTTGCACTTGAATCCCTGCGTCTT
1439	ACCGATGCGCGGTCGGTCTCATAC	GTATGAGACCGACCGCGCATCGGT
1440	GGCAGAGGGTTAGGGGTTTTTTTT	AAAAAAACCCCTAACCCTCTGCC
1441	GGCAAAGGGTGTTTATGGGAGACC	GGTCTCCATAAACACCCTTTGCC
1442	ACAAGGCTTCGGCTGGCAGAATAC	GTATTCTGCCAGCCGAAGCCTTGT
1443	CATATCCGTTTCTATCGCCAGACG	CGTCTGGCGATAGGAACGGATATG
1444	AAGCCTTTGTGGCCAAGGCCGCGT	ACGCGGCCTTGCCACAAAGGCTT
1445	CCGAACCATGGCTTTATCCAGTGT	ACACTGGATAAAGCCATGGTTCTGG
1446	GTTTCAGCAGTAGCTCCCTCCTCGA	TCGAGGAGGGAGCTACTGCTGAAC
1447	GCGCAGTGACACCATGATGCTTTC	GAAAGCATCATGGTGTCACTGCGC
1448	ACGATCCATTTTGCCAGCATGCAA	TTGCATGCTGGCAAATGGATCGT
1449	TCCCTTCATTTCTGGGTTTTTAGCC	GGCTAAAAACCCGAAATGAAGGGA
1450	TCTTCTTGCCACATTCCCTTTTG	CAAAAGGGAATGTGGGCAAGAAGA
1451	TGCCTTTTGATTGGTGGTCACGGT	ACCGTGACCACCAATCAAAGGCA

Serial No.: 09/940,185
 Filed: August 27, 2001

A9

1452	GACCCTCACGGTCATCAGAGGGAG	CTCCCTCTGATGACCGTGAGGGTC
1453	CCGTTCAACACAGTGATACACGCG	CGCGTGTATCACTGTGTTGAACGG
1454	CACCAGGGGATAGGTGCGGTACGC	GCGTACCGCACCTATCCCCTGGTG
1455	GGTCGGAACCTGATCTGTGCGATCC	GGATCGCACAGATCAGTTCCGACC
1456	TGCTCCTTCTAGGGTCATCCGTG	CACGGATGACCCTAGGAAGGAGCA
1457	GTGGACTTTGACGCCGGCTACCGC	GCGGTAGCCGGCGTCAAAGTCCAC
1458	CTGATCTGTGCGCGGTTACTTGCC	GGCAAGTAACCGCCGACAGATCAG
1459	AGAGGAGCGGAAAAACCGGACGA	TCGTCCGGTTTTTTCCGCTCCTCT
1460	GCGACGAAGAGATCCAGCAAGCTC	GAGCTTGCTGGATCTCTTCGTGCG
1461	GGGACTTCCAGCTGAGGGACGAAA	TTTCGTCCCTCAGCTGGAAGTCCC
1462	GGCGCACTCCAATACCCACTGTTT	AAACAGTGGGTATTGGAGTGCGCC
1463	GCGCTTGAGACTGTCAGGACGTG	CACGTCCTGACAGTCTCCAAGCGC
1464	CAAACCGCTGGTTTCTCCACCTGT	ACAGGTGGAGAAACCAGCGGTTTG
1465	GCGATTGCTTGGGATCGGTGACTA	TAGTCACCGATCCCAAGCAATCGC
1466	CTCAGCGACATTTTTCTGGTGGCG	CGCCACCAGAAAAATGTCGCTGAG
1467	CAGCGGCGTCGTTTACTCAGGACT	AGTCCTGAGTAAACGACGCCGCTG
1468	GACAGCCGTGAACGCTCAGCCGTT	AACGGCTGAGCGTTCACGGCTGTC
1469	GGGCCGTAGAGGCATCGGGTAAAG	CTTTACCCGATGCCTCTACGGCCC
1470	CGCCGCTCACCTGCTTAAAGCATT	AATGCTTTAAGCAGGTGAGCGGCG
1471	TGCCAAATCGCAACTCTTGAGACA	TGTCTCAAGAGTTGCGATTTGGCA
1472	CCCCGATCGGGTGTAATTCTCCCT	AGGGAGAATTACACCCGATCGGGG
1473	CAAGGTCCAGGTGACGCAACCACT	AGTGGTTGCGTCACCTGGACCTTG
1474	CGAGCCTTCAGTGATGTCATGCG	CGCATGCATACCACTGAAGGCTCG
1475	CAGCAGCGTGCCCATCTCGACTTA	TAAGTCGAGATGGGCACGCTGCTG
1476	CGGACCAAGATGGCAGTAATCCAG	CTGGATTACTGCCATCTTGGTCCG
1477	CTACCACGCTCTGCGCGGGCTGTA	TACAGCCCGCGCAGAGCGTGGTAG
1478	ACGTGGTTAGGCATGAGCTGCGTC	GACGCAGCTCATGCCTAACCACGT
1479	CGACATATCCGACATGACCGGATG	CATCCGGTCATGTCGGATATGTCG
1480	GCGCCCAGGCTGTGTTAGAAAATA	TATTTTCTAACACAGCCTGGGCGC
1481	AGCTGGGACTCCGGACCTTGAGTG	CACTCAAGGTCCGGAGTCCCAGCT
1482	CGGTGCTAACCGCTGCTACAACCT	AAGTTGTAGCAGCGGTTACGACCG
1483	TCGTTCTCTGGAACAATTCAGCA	TGCTGAATTGTTCCAGAGGAACGA
1484	CGGCATCTCCGGACAAAGGTTAAC	GTTAACCTTTGTCCGGAGATGCCG
1485	TATCTTGTCGAGCGCCACTCGGAG	CTCCGAGTGGCGCTCGACAAGATA
1486	TGCAAGGGAGAAAGCCCCATGAGC	GCTCATGGGGCTTTCTCCCTTGCA
1487	ACTGCATAGCCCAGATCCGCTTGC	GCAAGCGGATCTGGGCTATGCAGT
1488	TGTGATTCAGTCGAAGCAAGGCCG	CGGCCTTGCTTCGACTGAATCACA
1489	CATCCATCTACAATTCGGGCCAGT	ACTGGCCCGAATTGTAGATGGATG

Serial No.: 09/940,185

Filed: August 27, 2001

1490	ATGAGCCGTTTCAGAAAGCCAAAGA	TCTTTGGCTTTCTGAACGGCTCAT
1491	ACACTGGAATTGCTAGACCCCGCG	CGCGGGGTCTAGCAATTCCAGTGT
1492	CTGAGCTGCGTGGGACAACTCCGC	GCGGAGTTGTCCCACGCAGCTCAG
1493	CAGCTACTAGGGCGCGATGTACCC	GGGTACATCGCGCCCTAGTAGCTG
1494	ATAATGATGGGACGAGAAGGCCCC	GGGGCCTTCTCGTCCCATCATTAT
1495	CGACCGAGTGTTACGACATGGTGC	GCACCATGTCGTAACACTCGGTGC
1496	TGCAGTACCCGCCGCTCCACTAGT	ACTAGTGGAGCGGCGGGTACTGCA
1497	ATGCTAGCGCGCCTGTCAACGTAC	GTACGTTGACAGGCGCGCTAGCAT
1498	AGACTCACTGCCGGCTGATCAAAT	ATTTGATCAGCCGGCAGTGAGTCT
1499	GCCTGGTGCGAAGATAGGGATTCC	GGAATCCCTATCTTCGCACCAGGC
1500	GGAAAGTTGGCGGATCCGAGCACT	AGTGCTCGGATCCGCCAACTTTCC
1501	GGCAGTGAGCAATGTGTGACGAGG	CCTCGTCACACATTGCTCACTGCC
1502	TGAGGTCCTCCCGGCGGACTACGA	TCGTAGTCCGCCGGGAGGACCTCA
1503	CTCGCCTTAGATCGTGGTTCCGCA	TGCGGAACCACGATCTAAGGCGAG
1504	GTCGAGGAATATCATCGCAGCCAG	CTGGCTGCGATGATATTCTCGAC
1505	GCGAATGCAACGAGACAAGAAGGA	TCCTTCTTGTCTCGTTGCATTGCG
1506	TTCGCCACCAAGTCGGCATTGT	AACAAATGCCGACTTGGTGGCGAA
1507	CGGTGGCTGACACTTGCCGGATTC	GAATCCGGCAAGTGTCAGCCACCG
1508	CAAGGAGCAATCAGATGGTCGGAG	CTCCGACCATCTGATTGCTCCTTG
1509	GTGACCCGGTCCGTTCTAGCTGTG	CACAGCTAGAACGGACCGGGTCAC
1510	CTCTCGCCACATAACTGCACAAA	TTTGTGCAGTTATGTGGGCGAGAG
1511	AAACCTGCCTAAGCAAGCACTGGA	TCCAGTGCTTGCTTAGGCAGGTTT
1512	TTCCATATTGTACCCCGCGCATGC	GCATGCGCGGGGTACAATATGGAA
1513	TGCTTGCGATATCACGATACTGCG	CGCAGTATCGTGATATCGCAAGCA
1514	TTAGTGTTTCGAGCCTTGAGCCGGC	GCCGGCTCAAGGCTCGAACACTAA
1515	CTTGTTGCGCGAGTCCGTCTGGGA	TCCAGACGGACTCGCGCAACAAG
1516	GTCAGCTGCCTGCTGGTGCTCTTC	GAAGAGCACCAGCAGGCAGCTGAC
1517	CATCCCTCGAGGTGTAGGCAACAC	GTGTTGCCTACACCTCGAGGGATG
1518	CAGATGCACTCCGACGGGATTGAG	CTGAATCCCGTCGGAGTGATCTG
1519	CTGAGCCTCGCGAAGCTGTGGCAT	ATGCCACAGCTTCGCGAGGCTCAG
1520	GCTATGCCACGCCGCAGATAGAGC	GCTCTATCTGCGGCGTGGCATAGC
1521	AACACCAACCATAACCGTCCGTTCA	TGAACGGACGGTATGGTTGGTGTT
1522	GCCCAGAGCTAAAGCATGTCTGGG	CCCAGACATGCTTTAGCTCTGGGC
1523	AATGCTGCAATGCTAGCGTCGCTA	TAGCGACGCTAGCATTGCAGCATT
1524	TCCGGACGCAGTATCCAATCCGGA	TCCGGATTGGATACTGCGTCCGGA
1525	TAAGACCATGTGGCACCAAGGTGC	GCACCTTGGTGCCACATGGTCTTA
1526	ACAGCCACACACACGCGCCCACTA	TAGTGGGCGCGTGTGTGTGGCTGT
1527	TAGAACCGAGCACGGCGCCTTGTA	TACAAGGCGCCGTGCTCGGTTCTA

19

Serial No.: 09/940,185

Filed: August 27, 2001

1528	TTCGAGTAAGCTGGCAGGACCACT	AGTGGTCCTGCCAGCTTACTCGAA
1529	CTTTCGCAGGTTTCGCAGACAATCC	GGATTGTCTGCGAACCTGCGAAAG
1530	TACGTCCTGTGCTGTTGACACCGG	CCGGTGTCAACAGCACAGGACGTA
1531	GTTTCGGGTCAATGTTTCGGGGAGA	TCTCCCCGAAACATTGACCCGAAC
1532	CCCTGTTGTGAAGGGGTTTTGTGA	TCACAAAACCCCTTCACAACAGGG
1533	GGCAGATTGGTGAACCCAGATAA	TTATCTGGGGTTCACCAATCTGCC
1534	CCCTCGGTGTGTTCAAGCCAAATC	GATTTGGCTTGAACACACCGAGGG
1535	CCCGCGAACATTTGAACAGCTTAA	TTAAGCTGTTCAAATGTTGCGGG
1536	CCGTGTCAGTTGCTCCCTGGCACG	CGTGCCAGGGAGCAACTGACACGG
1537	TCCGTCTCAGCCGCCTCCCTATCC	GGATAGGGAGGCGGCTGAGACGGA
1538	ATAGCTGGGTCAACCACAGGCGGTC	GACCGCCTGTGGTGACCCAGCTAT
1539	ATAGGCAAGCGGTGTAGCACAGCG	CGCTGTGCTACACCGCTTGCCTAT
1540	TTAGAAGCCGGTCTGGATTTGCGT	ACGCAAATCCAGACCGGCTTCTAA
1541	TGCCGACCTTTACCAGGATCCTCG	CGAGGATCCTGGTAAAGGTGCGCA
1542	GCCCACACTATAACCAAGCTGGCA	TGCCAGCTTGTTATAGTGTGGGC
1543	TTGCGCCACTAGTACGGATCTCAA	TTGAGATCCGTACTAGTGGCGCAA
1544	CTTGCACTTTATGCTGACCCGTCC	GGACGGGTGACGATAAACTGCAAG
1545	TGCCTCCAAATTACTTACCGCCGT	ACGGCGGTAAGTAATTTGGAGGCA
1546	CCCGTATGCGGAAGCTATGGGCTA	TAGCCCATAGCTTCCGCATACGGG
1547	TCGTTCAACCCACACTTCAGTTG	CAACTGAAGTGTGGGGTTGAACGA
1548	CAATGTGGGGGACATTTCAAGGTT	AACCTTGAAATGTCCCCACATTG
1549	TAGCGTCGCACAAATGGCTGACCG	CGGTCAGCCATTTGTGCGACGCTA
1550	GGTGGCTTCGTGACAATATCGGCC	GGCCGATATTGTCACGAAGCCACC
1551	CAGCGGCGTCCGAAATTGGCTCTC	GAGAGCCAATTTGCGACGCCGCTG
1552	GGCTTGCTCTCGTTTTTGATTGCA	TGCAATCAAAAACGAGAGCAAGCC
1553	ATGCGAGGAGGACACGACCGTTCC	GGAACGGTCGTGTCTCTCTCGCAT
1554	CCTGTTCACTACGACCCACGGGAA	TTCCCGTGGGTCGTAGTGAACAGG
1555	GTGCCACGGAGTGCGACTGTTGCT	AGCAACAGTCGCACTCCGTGGCAC
1556	ACACATCCAAGTCTGACGATGGCC	GGCCATCGTCAGACTTGGATGTGT
1557	CAGCCCAGAAAGGAAAGCCTCCGTG	CACGGAGGCTTTCCTTTCGGGCTG
1558	AACTGAATGTAGGTGGGCCCTGT	ACAGGGGCCCCACCTACATTGAGTT
1559	ATTTTCGACGATAAGCTGGCCGGT	ACCGGCCAGCTTATCGTCGAAAAT
1560	TGAGGGAGAAACCCGAAATCTGCTT	AAGCAGATTTGGGTTCTCCCTCA
1561	GGCGACTACATCCCCAATTGCTTG	CAAGCAATTGGGGATGTAGTCGCC
1562	GCAGACGCGGCCTTCCATACTTTT	AAAAGTATGGAAGGCCGCGTCTGC
1563	ACAACCACATGACGTGTAGCTGCA	TGCAGCTACACGTCATGTGGTTGT
1564	CTGCTGGGCGCGCAAAGCTTGTTG	CAACAAGCTTTGCGCGCCAGCAG
1565	AAGCCTTCTTTGGCTTGCTCCGCT	AGCGGAGCAAGCCAAAGAAGGCTT

19

Serial No.: 09/940,185
 Filed: August 27, 2001

1566	TACCTGCTGCCTGGAGCAAGGCAT	ATGCCTTGCTCCAGGCAGCAGGTA
1567	GACGCCGCAGCCATGAGTGAGTGT	ACACTCACTCATGGCTGCGGCGTC
1568	AGTTGGCCGCTTATTTTGCTCACC	GGTGAGCAAAATAAGCGGCCAACT
1570	CCAGGCGCCTTCGACAGATCCTCA	TGAGGATCTGTGAAGGCGCCTGG
1571	GTGTCCCCTCCAGCTAGCCAGTTT	AAACTGGCTAGCTGGAGGGGACAC
1572	GACAACAAGCCAAGGTGACACGTC	GACGTGTCACCTTGGCTTGTGTC
1573	CTACACCGCTCGTGACTCGGCAAA	TTTGCCGAGTCACGAGCGGTGTAG
1574	TGGTGCCATCAAAGCACGTTGTAC	GTACAACGTGCTTTGATGGCACCA
1575	ACAATGCGTGTTGCGAAACGCATA	TATGCGTTTCGCAACACGCATTGT
1576	TTGTCCAGCCATTGTATTTTGCGC	GCGCAAAATACAATGGCTGGACAA
1577	ACGAGAGATAGCGGACTCCTCCGA	TCGGAGGAGTCCGCTATCTCTCGT
1578	AGCTTTGTCGTCAGGCGAGCTCTT	AAGAGCTCGCCTGACGACAAAGCT
1579	GACAGTCGGCGTGCAAGTTTGTGT	ACAACAAACTGCACGCCGACTGTC
1580	AGCTAGCGACGGCCAACTCACGTA	TACGTGAGTTGGCCGTCGCTAGCT
1581	CTCCTGTTTCGGGGCCGTTACTGGT	ACCAGTAACGGCCCCGAACAGGAG
1582	ACTGACCGACGCAGTGCCACATAG	CTATGTGGCACTGCGTCGGTCAGT
1583	AGGTAGGGTCTGGTTTACTCGCA	TGCGAGTCAAACCAGACCCTACCT
1584	CCTCCATTTTAGCGCGTTGCCAAT	ATTGGCAACGCGCTAAATGGAGG
1585	TTCTTAGGATCCGCGCACTCTTGG	CCAAGAGTGCGCGGATCCTAAGAA
1586	GTCGAAGGTGTCTACCGTGCGCAG	CTGCGCACGGTAGACACCTTCGAC
1587	GTCACTCGGCGGCCCAATCACTCG	CGAGTGATTGGGCCGCCGAGTGAC
1588	TCTCGGTCACCCGTCTTGACCCTT	AAGGGTCAAGACGGGTGACCGAGA
1589	GCCCTCGACGAACTCATCCTGAAC	GTTCAGGATGAGTTCGTGAGGGC
1590	TCCGGCGTACTCTGACACGGCGAT	ATCGCCGTGTCAGAGTACGCCGGA
1591	AGCCAAATGCTTTCGTGGTTCGGA	TCCGAACCACGAAAGCATTTGGCT
1592	ACTCCACGCCGCATGTTGCTGTGA	TCACAGCAACATGCGGCGTGAGT
1593	GCTTCGAGTCGGTGGCATCTGTAT	ATACAGATGCCACCGACTCGAAGC
1594	GGTCTTGGGCCATCGACTTGCTGC	GCAGCAAGTCGATGGCCCAAGACC
1595	GGTATCGGACTGCACTAAGGGCAA	TTGCCCTTAGTGAGTCCGATACC
1596	AGCCCATGCGTTCGGGATGATTTG	CAAATCATCCGGAACGCATGGGCT
1597	GCCAGGGTTAAAAGTGATGGGCTC	GAGCCCATCACTTTTAACCCTGGC
1598	GACGACGTGCTGGCTACGAAGGGG	CCCCTTCGTAGCCAGCACGTCGTC
1599	TCCTATTGACCGTGATCGTGATC	GATCACGATGCACGGTCAATAGGA
1600	ACCCGCCTCGACTCCACAATAAA	TTTAGTTGTGGAGTCGAGGCGGGT
1601	GATGTGGATCACGACCTGCCAGTA	TACTGGCAGGTCGTGATCCACATC
1602	GTGCCATTGCCACCCATAATGCGT	ACGCATTATGGGTGGCAATGGCAC
1603	TTAGCCTGTGCACCCAGTCAGGAG	CTCCTGACTGGGTGCACAGGCTAA
1604	TCCGATGGGAGAGGCTGATCTCAC	GTGAGATCAGCCTCTCCATCGGA

79

Serial No.: 09/940,185

Filed: August 27, 2001

1605	CACTACTGAAGTGGCCTGGCGCTG	CAGCGCCAGGCCACTTCAGTAGTG
1606	TGCGGCCATAGCGATGTGATAGAT	ATCTATCACATCGCTATGGCCGCA
1607	GATTGCGCTTAACGGAGATGCACG	CGTGCATCTCCGTTAAGCGCAATC
1608	TCACGTTTGACAACGCCAAGCATT	AATGCTTGGCGTTGTCAAACGTGA
1609	GCATTGTTTGCTAAAGGCGGCATT	AATGCCGCCTTTAGCAAACAATGC
1610	AGTCGCTCTACGCGTGCAACGCTG	CAGCGTTGCACGCGTAGAGCGACT
1611	TAGCTCCATGGAGGTCCGAAAGGG	CCCTTTCGGACCTCCATGGAGCTA
1612	GACCGGTTGGACCTCACTGGCTTC	GAAGCCAGTGAGGTCCAACCGGTC
1613	AAGCCGGACAGTCAATGTGCGTAT	ATACGCACATTGACTGTCCGGCTT
1614	TGCCTCGCTGAGTTCTTCACCGTG	CACGGTGAAGAACTCAGCGAGGCA
1615	TCGTAGACCTTGCTTTTGGGCTCA	TGAGCCCAAAGCAAGGTCTACGA
1616	ACCGCTATGCGCCCTACAAAGCAT	ATGCTTTGTAGGGCGCATAGCGGT
1617	TAGCGTCACCGTAGCTTGGGGCAG	CTGCCCCAAGCTACGGTGACGCTA
1618	CTCTCAGCAACTGATGGCACCGGA	TCCGGTGCCATCAGTTGCTGAGAG
1619	AAAGGAAATGTGGTGCTGGTCGGC	GCCGACCAGCACCACATTTCTTTT
1620	CCGGCTTAGATGGAGAACAAGTGC	GCACTTGTTCTCCATCTAAGCCGG
1621	AAGTAAATCGCCTCGCCCAAACCG	CGGTTTGGGCGAGGCGATTTACTT
1622	TGGGCTGTTCAGCCTACCGGACGT	ACGTCCGGTAGGCTGAACAGCCCA
1623	GTTTCGGTTCAGCCATGGGCCTAC	GTAGGCCCATGGCTGAACCGAAAC
1624	GGCCAACATTTCTAGGGGAGTGCC	GGCACTCCCCTAGAAATGTTGGCC
1625	TTCTTCGTTGGGATTGTCCTCACC	GGTGAGGACAATCCCAACGAAGAA
1626	TGCACATTGGGGTACGGATCTGAC	GTCAGATCCGTACCCCAATGTGCA
1627	GGCAGTTAGACGGCAAACCTGCAGG	CCTGCAGTTTGCCGTCTAACTGCC
1628	CGCGTCAGGCTATGAATGGCTCTT	AAGAGCCATTCATAGCCTGACGCG
1629	GCTGAATGCAAACCTCGGAGCCAT	ATGGCTCCGAGGTTTGCATTACAGC
1630	CGCTCTGGCGGATTCAATTGTTTTT	GAAAACAATGAATCCGCCAGAGCG
1631	TTTTCAATCAACCCTCCGGACGTA	TACGTCCGGAGGGTTGATTGAAAA
1632	GTGGTGGAGTCTGAAGCACGACAG	CTGTCTGTGCTTCAGACTCCACCAC
1633	AAACAGGTCCGGATGATGTCTGGA	TCCAGACATCATCCGGACCTGTTT
1634	GTACCGCGTGTACGCCACCGTTAG	CTAACGGTGGCGTACACGCGGTAC
1635	TCCAACCTACATTTGCGGAAGGAA	TTCCTTCCGCAAATGTAGGTTGGA
1636	GACGTACCGTCTGTCCTCGTGAGTTG	CAACTCACGGGACGACGGTACGTC
1637	GGCAATCCTACAACCGACGCTGAT	ATCAGCGTCGGTTGTAGGATTGCC
1638	GGCGGCTGCAGGGTCTACATCGAG	CTCGATGTAGACCCTGCAGCCGCC
1639	ATACTACGCTGCAGCTGCGCGGGC	GCCCGCGCAGCTGCAGCGTAGTAT
1640	GGATCGCAATCCCTCCGATGACGA	TCGTATCGGAGGGATTGCGATCC
1641	TGGCCTTGACGGGAGCCGAATCT	AGATTCGGCTCCCGTGCAAGGCCA
1642	AGGTGCCGACGAAACGACGAATAT	ATATTCGTCTGTTTCGTCTGGCACCT

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1643	GCTGTTTCACCGTCGTCGTTGTTG	CAACAACGACGACGGTGAAACAGC
1644	CGGTCCCAATGTTACAACCCAGAC	GTCTGGGTGTGAACATTGGGACCG
1645	GCAATTCCAGCCACTTTTGACCAA	TTGGTCAAAAGTGGCTGGAATTGC
1646	ACGGGCGAAAGCTCGGTACGGATA	TATCCGTACCGAGCTTTCGCCCGT
1647	CGACCCGACTTTTGCTTTCGAGTG	CACTCGAAAGCAAAAGTCGGGTG
1648	AATTCAGTGTTTGCCTCATGGTCG	CGACCATGACGCAAACACTGAATT
1649	CCTGTATGAGGTTCTGGGTGCGCT	AGCCGACCCAGAACCTCATACAGG
1650	TGGCATACTTGGTGCAAACGCCGT	ACGGCGTTTGCACCAAGTATGCCA
1651	TCGCCAGTACAGAAACATGCGGGC	GCCCGCATGTTTCTGTACTGGCGA
1652	CCCGCTGTTGCTCTCATCGTGGAG	CTCCACGATGAGAGCAACAGCGGG
1653	GCCACAATCTGACCCTGGGAATCA	TGATTCCCGAGGTCAGATTGTGGC
1654	GCTCAGTCTCGGAAGTTTCGGCTA	TAGCCGAAACTTCCGAGACTGAGC
1655	CTTCACGGGCCAACGACGGTCGAG	CTCGACCGTCGTTGGCCCGTGAAG
1656	CGACAGTTCGCTCCGTCTTGAGGA	TCCTCAAGACGGACGGAACGTGCG
1657	ACGGAGACGCAGTCGAAACGTCCC	GGGACGTTTCGACTGCGTCTCCGT
1658	CATGCATCCGATTAAGGGGATCAC	GTGATCCCCTTAATCGGATGCATG
1659	ATTGCGGGAGTCCCTAGCTTTCTG	CAGAAAGCTAGGGACTCCCGCAAT
1660	GTGTGGAAGATGCAATTGGAACGG	CCGTTCCAATTGCATCTTCCACAC
1661	ATACAACGGTAGGTGACAGGGGCG	CGCCCCTGTCACCTACCGTTGTAT
1662	GCCGTGGGAGTAAGGGTACAAAGG	CCTTTGTACCCTTACTCCCACGGC
1663	GCACGTAGGTGCGGCTACTACTCGG	CCGAGTAGTAGCCGACCTACGTGC
1664	ACTGTGATCTCTTGGGCAAAGGGC	GCCCTTTGCCCAAGAGATCACAGT
1665	CATGCCTGAACAATCTCGCATCCC	GGGATGCGAGATTGTTTCAGGCATG
1666	GAGCCTGGCTCCACAGCTGTGCTC	GAGCACAGCTGTGGAGCCAGGCTC
1667	CTTTGATACCATCGTTGGCGATC	GATCGCCAACGATGGTATCGAAAG
1668	CCCGGAGGTGAGGCATTGAATATG	CATATTCAATGCCTCACCTCCGGG
1669	CTCATTGAGCTAAAAGCGGCTGGA	TCCAGCCGCTTTTAGCTGAATGAG
1670	GAAATGCCCTGGGGACTTTTTGCC	GGCAAAAAGTCCCCAGGGCATTTC
1671	TTTGCCTTCACAACAGACGCAGCA	TGCTGCGTCTGTTGTGAAGGCAAA
1672	AAATCCCAAGACGTCGGGGCGTAT	ATACGCCCCGACGTCTTGGGATTT
1673	CAACGGGCGGTAGCTAAACCGTAA	TTACGGTTTAGCTACCGCCCGTTG
1674	GGCCAACGACAATGCGAAACCTTC	GAAGGTTTCGCATTGTGTTGGCC
1675	GACATCACGCAAAATCTCAGCGCA	TGCGCTGAGATTTTGCCTGATGTC
1676	ACGTTCCGTCCACAACCGTATGTT	AACATACGGTTGTGGACGGAACGT
1677	GCTCATAGGTCTTCCGTAGCCCGT	ACGGGCTACGGAAGACCTATGAGC
1678	GAAACGAGTCTCTCGCGCCCTAGA	TCTAGGGCGCGAGAGACTCGTTTC
1679	CGGGACAGAAGCAAGTTACATCGG	CCGATGTAACCTGCTTCTGTCCCG
1680	TGACCGCTCGATACCAGGAGGGTG	CACCTCCTGGTATCGAGCGGTCA

A9
Cont'd

Serial No.: 09/940,185

Filed: August 27, 2001

1681	CTGGCAATAAAGACCTTCCGACCA	TGGTCGGAAGGTCTTTATTGCCAG
1682	TGCGCGACGTCATGTTGGTGATTA	TAATCACCAACATGACGTCGCGCA
1683	GTTGGTTGTGGGAACACACCCGCT	AGCGGGTGTGTTCCCACAACCAAC
1684	TGTGGGTTTCGGAACACAGGAAGT	ACTTCCTGTGTTTCCGAACCCACA
1685	GGAAAAACGGCAATTAGCCGAGT	ACTCGGCTAATTGCCGTTTTTTCC
1686	TGGTGCGGAGTGCCCTCTATTGGG	CCCAATAGAGGGCACTCCGCACCA
1687	AACCAACAGGCTGCAGCCCAGACT	AGTCTGGGCTGCAGCCTGTTGGTT
1688	AAACAGATCCATCTGCACGCCAGG	CCTGGCGTGCAGATGGATCTGTTT
1689	GGAATACCGCGGCGATTATGGCTT	AAGCCATAATCGCCGCGGTATTCC
1690	TACTGTTTCGCGGCAAACCGTCACT	AGTGACGGTTTGCCGCGAACAGTA
1691	GATCTCTCGTGGAGCACGTTTTCC	GGAAAACGTGCTCCACGAGAGATC
1692	GGCATAGCAAACCTTGACCTCCAA	TTGGAGGTCAAGGTTTGCTATGCC
1693	ATCTGGGATTCGCGAGCCAATATC	GATATTGGCTCGCGAATCCCAGAT
1694	CGATCAGGATATCATTTACGCCCCG	CGGGCGTAAATGATATCCTGATCG
1695	ACGGTACCGAAACGGTCTCAGCGT	ACGCTGAGACCGTTTCGGTACCGT
1696	CTCCCATACCTGCGTTCTTACCGA	TCGGTAAGAACGCAGGTATGGGAG
1697	GCACGAGAACCTAATTGTGCACA	TGTGCGACAATTAGGTTCTCGTGC
1698	GCCACACGATCAAGACAGCGCATG	CATGCGCTGTCTTGATCGTGTGGC
1699	CCCGTTAACTCACGAGCGGTCAAT	ATTGACCGCTCGTGAGTTAACGGG
1700	AGAGAAGGTCATTGCCTGTCGGTG	CACCGACAGGCAATGACCTTCTCT
1701	CGGGCCCTCTTAAAGTAGAGCAGG	CCTGCTCTACTTTAAGAGGGCCCCG
1702	ACATCGCGTCCGAGGGAGTTAGCG	CGCTAACTCCCTCGGACGCGATGT
1703	AATGCCTAATCGAGCCAGCGGATC	GATCCGCTGGCTCGATTAGGCATT
1704	CTCGATCTTTTTAAACCGGCGCTT	AAGCGCCGGTTTAAAAAGATCGAG
1705	CGTTCCTGGAAGGCAGGGTCTCAC	GTGAGACCCTGCCTTCCAGGAACG
1706	CCTGTGCTTACTATCGGCGATCCA	TGGATCGCCGATAGTAAGCACAGG
1707	GTTAGTCGCCCTATTGGCCTGGTT	AACCAGGCCAATAGGGCGACTAAC
1708	CCGGTGAGATGACTGTAAATGCCA	TGGCATTTACAGTCATCTCACCGG
1709	CGTGGTTTAAACATCGCGCTTCG	CGAAGCGCGATGTTTTAAACCACG
1710	TAAGACGCAGAAGATGGGGTCCAC	GTGGACCCCATCTTCTGCGTCTTA
1711	CACCACAGCTTCTTTGTTTCGACCC	GGGTCGAACAAAGAAGCTGTGGTG
1712	TCGGGTCCGTACCACCACTTTTGC	GCAAAAGTGGTGGTACGGACCCGA
1713	CCAAGCCCCGAGTACCGAAGATTT	AAATCTTCGGTACTCGGGGCTTGG
1714	TCCGTGATATGGTCGTGGCGCGGT	ACCGCGCCACGACCATATCACGGA
1715	TGTCTGTGTCATGGCACCTCGCAT	ATGCGAGGTGCCATGACACAGACA
1716	AGGACTGCACTGTGCACGTCTGAT	ATCAGACGTGCACAGTGCAGTCCT
1717	CCATCCTCATGTACAGCGCCGCTG	CAGCGGCGCTGTACATGAGGATGG
1718	GTACCCGCGCCTTCTCGACACAG	CTGTGTCGAGGAAGGCGCGGGTAC

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1719	ACGGGTCCTGGTCGACTAAGGCTT	AAGCCTTAGTCGACCAGGACCCGT
1720	CGTATCGAAGGCGTGTACAACCGG	CCGGTTGTACACGCCTTCGATACG
1721	TGCCCGCCCTTTATGCAACGCTCA	TGAGCGTTGCATAAAGGGCGGGCA
1722	AAACTTACGAGACGGCGGCTGCCA	TGGCAGCCGCCGTCTCGTAAGTTT
1723	AAGTCTGACAAACGGAACGGGTGT	ACACCCGTTCCGTTTGTGCACTT
1724	TAAGCGCAGACCAAAGTATGCGGC	GCCGCATACTTTGGTCTGCGCTTA
1725	GCAGTTTTTCAGATCCTCCGCAA	TTTGCGGAGGATCTGAAAACTGC
1726	TCGGAAGCATTACGCGATCTCAG	CTGAGATCGCGTAAATGCTTCCGA
1727	CACAGAAACGGTTGAACGAACGCC	GGCGTTCGTTCAACCGTTTCTGTG
1728	GCATGCTCAGATGGTCGTGCTCAC	GTGAGCACGACCATCTGAGCATGC
1729	AAGGATTCTCGCTTCCGGCATGAT	ATCATGCCGGAAGCGAGAATCCTT
1730	GGTGGGGTAGCGCTGGTATGAAAA	TTTTCATACCAGCGCTACCCACC
1731	ATTATTACGGGACCGAACCAACGG	CCGTTGGTTCGGTCCCGTAATAAT
1732	GCGCGAGTGTCTATGATGTTACGT	ACGTGAACATCATGACACTCGCGC
1733	GACATTCGTGACTTGGTCGTCCGC	GCGGACGACCAAGTCACGAATGTC
1734	TCATTAGTGCAGGCACCGATCAAG	CTTGATCGGTGCCTGCACTAATGA
1735	GAGTTGTGCGGAGTCATCGGAGTC	GACTCCGATGACTCCGCACAATC
1736	GCCTTTACAGATTTGGCGGGCTAT	ATAGCCCGCCAAATCTGTAAAGGC
1737	ATGGCGTTTGC GAAGTCGATACAG	CTGTATCGACTTCGCAAACGCCAT
1738	TGCATCGGCCTCAATCAGAGAACT	AGTTCTCTGATTGAGGCCGATGCA
1739	ACAATCATGGCAATCTGGCAAATG	CATTTGCCAGATTGCCATGATTGT
1740	GACGTGGAAGAGTGCAGATCAGCA	TGCTGATCTGCACTCTTCCACGTC
1741	AGGGCAGGGGACGGACAGTAAGTC	GACTTACTGTCCGTCCCCTGCCCT
1742	GCATAGGGCGAATCTAGTACGGGC	GCCCGTACTAGATTGCCCCTATGC
1743	TCCGGCGCATCCTCATTAGCAACT	AGTTGCTAATGAGGATGCGCCGGA
1744	TGGCCGCTTCCACTAATATTGGAC	GTCCAATATTAGTGGAAGCGGCCA
1745	CCGGCGGACGGCTCTTGTC AATGA	TCATTGACAAGAGCCGTCCGCCGG
1746	CGAGCAACCCAAAAGGAAGCAGTA	TACTGCTTCCTTTTGGGTGCTCG
1747	GCGTATGATTGCGCAATCCGCCAG	CTGGCGGATTGCCGAATCATACGC
1748	AGTACCGCTACAACGCTGGTTCGC	GCGAACCAGCGTTGTAGCGGTACT
1749	GGGCAGGCCAGGTCCACCTGAGAA	TTCTCAGGTGGACCTGGCCTGCCC
1750	CCAATTCTGTGACCGAACC GTGCT	AGCACGGTTCGGTCACAGAA GTG
1751	CCTGGTACCAGGCAGCAGTTGATT	AATCAACTGCTGCCTGGTACCAGG
1752	TTAGGGTACCGTCGAGAGACGCCA	TGGCGTCTCTCGACGGTACCCTAA
1753	GGTTGCTTGTGCGCGTGAGGTAGT	ACTACCTCACGCGCACAAGCAACC
1754	TGCTTCGACCGATGAAACTCGAAG	CTTCGAGTTTCATCGGTGCAAGCA
1755	TGCCACCCATACTATGCCAGTGG	CCACTGGGCATAGTATGGGTGGCA
1756	TGTGCGGCAACGCGTGAAGACGTT	AACGTCTTCACGCGTTGCCGCACA

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1757	TGAGAGAAGCTGGCCTCGGATCAG	CTGATCCGAGGCCAGCTTCTCTCA
1758	TATTGCGAATTCGAGTACGTGCCC	GGGCACGTA CT CGAATTCGCAATA
1759	CGAGAGGGGTTC C C C CAGTGATCGA	TCGATCACTGGGGAACCCCTCTCG
1760	TGCCTGGGGTGTCTGTTCTAATTCT	AGAATTAGAACGACACCC CAGGCA
1761	GTGCGTCATTGTGGGTCATCCCAA	TTGGGATGACCCACAATGACGCAC
1762	AGGGCTCCCAGCATACCAACGTTG	CAACGTTGGTATGCTGGGAGCCCT
1763	AACTAGCCGCACCTTTGTGCAGAG	CTCTGCACAAAGGTGCGGCTAGTT
1764	TTAGCC CAGCCCTTCAATGGGAAC	GTTCC CATTGAAGGGCTGGGCTAA
1765	CGGCCTCGGTTGTACGGGTAGTCT	AGACTACCCGTACAACCGAGGCCG
1766	TCTTTGAGGCGCGGACCCGCATAT	ATATGCGGGTCCGCGCCTCAAAGA
1767	GATGGTTCGCCCTTGTGTGCGCAGC	GCTGCGACACAAGGGCGAACCATC
1768	GAGATTCAATACAGGCCGCGGGTC	GACCCGCGGCCTGTATTGAATCTC
1769	AGGGCGAAGGAAGGTTCCGTTTTT	AAAAACGGAACCTTCCTTCGCCCT
1770	CTCGACCCCTGCCACTACTGGTTC	GAACCAGTAGTGGCAGGGGTCGAG
1771	TGTTCCGCGGTCTACGCATTACTG	CAGTAATGCGTAGACCGCGGAACA
1772	GAGACGACGTCCTACACCCGCTAA	TTAGCGGGTGTAGGACGTCTGTCTC
1773	AGATTGCGACAGCGACACGTGATT	AATCACGTGTCTGCTGTCTGCAATCT
1774	GATACCGTTGGGCATTTCTCGGTA	TACCGAGAAATGCCCAACGGTATC
1775	GATTGGGAGGCATTCAGCGACGGA	TCCGTCGCTGAATGCCTCCCAATC
1776	AGGAGGAAACGAGGGCGTAGGTTC	GAACCTACGCCCTCGTTTCCTCCT
1777	GCCAAACAACGTCTGACGCCTAGC	GCTAGGCGTCAGACGTTGTTTGCG
1778	TTTAATGCGGAAAGGATGCACGCG	CGCGTGCATCCTTTCCGCATTAAA
1779	TTATCGGCCGTTAAATGGGATGG	CCATCCCATTTTAAACGGCCGATAA
1780	CCTTGGATTCTGTTTCATCGCTAGCA	TGCTAGCGATGAACGAATCCAAGG
1781	AAGTGAACGTGCAGTGGTCTTCGA	TCGAAGACCACTGCACGTTCACTT
1782	TCCTTACCCCTCGTTCAAACGCCT	AGGCGTTTGAACGAGGGGTAAGGA
1783	ATTCCTGAACCATGCATGGCCTGT	ACAGGCCATGCATGGTTCAGGAAT
1784	AGCGAGACGCTCGATCAGAACTA	TAGTTCGTGATCGAGCGTCTCGCT
1785	GCTGGTCTGGCTCGCTGTTTAGAA	TTCTAAACAGCGAGCCAGACCAGC
1786	CGTGCGCGGCATAAAGATAGGTCT	AGACCTATCTTTATGCCGCGCACG
1787	TCTGGCACTCACATCGGACAGTCT	AGACTGTCCGATGTGAGTGCCAGA
1788	ACCATTGGAGGACCACAGAGCTCC	GGAGCTCTGTGGTCCTCCAATGGT
1789	TCCAGGGTCGGAGTACATGGCGGG	CCCGCCATGTA CT CCGACCCCTGGA
1790	ATATGCCGTCGGATCGTACACGCA	TGCGTGTACGATCCGACGGCATAT
1791	TGCTGGCGTCAACACTTCCCGATT	AATCGGGAAGTGTTGACGCCAGCA
1792	CAGGGCGGTGCGGTGAACTAGCCA	TGGCTAGTTCACCGCACCGCCCTG
1793	CATGGACTGCCGTACATCAGCTGG	CCAGCTGATGTACGGCAGTCCATG
1794	CCGGCCATACGCTGGCAAGATTAC	GTAATCTTGCCAGCGTATGGCCGG

A9

Serial No.: 09/940,185

Filed: August 27, 2001

1795	AGCGGACACCTGTACTCTCCTCCA	TGGAGGAGAGTACAGGTGTCCGCT
1796	GGAGCCACACCAGTCGAAGATGGT	ACCATCTTCGACTGGTGTGGCTCC
1797	CGCCACCGGAAATTGAAAAGACTG	CAGTCTTTTCAATTTCCGGTGGCG
1798	TGAAACGGATGTTGCTTCTTGACG	CGTCAAGAAGCAACATCCGTTTCA
1799	TTGAAGCGGTGAAGAGCCTGTCCT	AGGACAGGCTCTTCACCGCTTCAA
1800	CGAACCAAGCTGCATTGTCAAGTGG	CCACTGACAATGCAGCTTGTTTCG
1801	GAGTCTGCGCTTGCAATCTTTGCG	CGCAAAGATTGCAAGCGCAGACTC
1802	GCTGGGTATAGTTGCCTGGCAATG	CATTGCCAGGCAACTATACCCAGC
1803	GCAGGCGTTCCATATTCGCAACCC	GGGTTGCGAATATGGAACGCCTGC
1804	GCGCCAATAATACCTCCACCGCG	CGCGGTGGAGGTATTAGTTGGCGC
1805	TGGCGTTCAGTGCAACGCTGGTTA	TAACCAGCGTTGCACTGAACGCCA
1806	CAAACTGACGGGTATGGGAGCGC	GCGCTCCCATACCCGTCAGTTTTG
1807	AGGTGTCGCTGGAACCCGACTTGT	ACAAGTCGGGTTCAGCGACACCT
1808	CTTCCAAAAGCGCAATTGGCTTTG	CAAAGCCAATTGCGCTTTTGAAG
1809	TCGGGCTTCTCGCAATTCTGTCAG	CTGACAGAATTGCGAGAAGCCCGA
1810	GCCAAAAGAATGCGCTGGGTAGGT	ACCTACCCAGCGCATTCTTTTGGC
1811	TGGTGCCCGCACCGAGAGACTGTA	TACAGTCTCTCGGTGCGGGCACCA
1812	CGAGGCCGTAGTGGGGACTGCTCT	AGAGCAGTCCCCACTACGGCCTCG
1813	CGATCTGCGCATAGAGGGGACTTT	AAAGTCCCCTCTATGCGCAGATCG
1814	TGTGCAATCGGCCTTCTCAGAGCC	GGCTCTGAGAAGGCCGATTGCACA
1815	GATCACCTGGACCGCTACCGTTTT	AAAACGGTAGCGGTCCAGGTGATC
1816	ATGGGGAGTTAAGGACCCTGCACC	GGTGCAGGGTCCTTAACCCCCAT
1817	CATTGTGGACAGCCAATGGTGGCT	AGCCACCATTGGCTGTCCACAATG
1818	CCATCACCATGCCACGGTAAGATC	GATCTTACCGTGGCATGGTGATGG
1819	GCACCCGTGTCGTTGGTTAGCAAG	CTTGCTAACCAACGACACGGGTGC
1820	GGAGTGGGTTCCGCGAATTCACTG	CAGTGAATTCGCGGAACCCACTCC
1821	GGGGATTTCTTTTCGAGGCTCGA	TCGAGCCTGCGAAAGGAAATCCCC
1822	CATTGATCATGTGCACTTGACCA	TGGTGCAAGTGACATGATCAATG
1823	AGCAGCGCTGCGCTTGTTCGGAT	ATCCGAAACAAGCGCAGCGCTGCT
1824	CGAGTAACGCGGTTGCTTTCGAA	TTCGCAAAGCAACCGCGTTACTCG
1825	TGGCCTGGAACATAGGTGGAATC	GAGTTCCACCTATGTTCCAGGCCA
1826	CGCACACCAAGCGTTTATTGAGAA	TTCTCAATAAACGCTTGGTGTGCG
1827	TCACCTTCACAGTGGGCATACAGC	GCTGTATGCCCCACTGTGAAGGTGA
1828	CAAATATCCCTGAGCCCTCGAGCT	AGCTCGAGGGCTCAGGGATATTTG
1829	GGGAGCTGGTGAGCAGATGTAACG	CGTTACATCTGCTCACCAGCTCCC
1830	AGGATTGCTTTTGCATTATGCGGA	TCCGCATAACGCAAAAGCAATCCT
1831	ATCGTTTGGGCGCTACGCAATTGT	ACAATTGCGTAGCGCCCAAACGAT
1832	CCGATTTGTCCCAAATGCAACGTT	AACGTTGCATTTGGGACAAATCGG

A9
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Serial No.: 09/940,185

Filed: August 27, 2001

A9

1833	AAGGGTCAAGCTCATGGAGCGGAA	TTCCGCTCCATGAGCTTGACCCTT
1834	TCTGACGTCGTTCAAGGGCTCGCT	AGCGAGCCCTTGAACGACGTCAGA
1835	CGCACCCTCCGAGGTATTTGTCT	AGACAAATACCTCGGAGTGGTGCG
1836	AAGGGGTGAAAAAGGAGAAGCCGA	TCGGCTTCTCCTTTTTTCACCCCTT
1837	AAACCACGCAAATGGCGATACCAT	ATGGTATCGCCATTTGCGTGGTTT
1838	CAGAAGGGATGACGCCTTAAGTCG	CGACTTAAGGCGTCATCCCTTCTG
1839	CATGACGAGAGCGGACCTGAAGTG	CACTTCAGGTCCGCTCTCGTCATG
1840	CTGGACATGTTTGTTCGCCACTG	CAGTGGCGAAACAAACATGTCCAG
1841	AAGACCGACTCTCGTCGTTTGCAC	GTGCAAACGACGAGAGTCGGTCTT
1842	GCGCGATTACATACCGTTTCCGTA	TACGGAAACGGTATGTAATCGCGC
1843	CACTGACCGGACCCAACCTAACAT	ATGTTAGGTTGGGTCCGGTCAGTG
1844	AGTGCAAGTCTAGACACGCCCGAG	CTCGGGCGTGTCTAGACTTGCACT
1845	GGTTGGTGCGAGATCCTGGACTGT	ACAGTCCAGGATCTCGCACCAACC
1846	GGTCGTCCCGAAACGTAAACGAGG	CCTCGTTTACGTTTCGGGACGACC
1847	GACTAGTACGATCACGGGGCGGGT	ACCCGCCCCGTGATCGTACTAGTC
1848	CCGACCTGACCCTGTGTACAGGTT	AACCTGTACACAGGGTCAGGTCGG
1849	TGCTCACTGCCACACTGTTATGG	CCATAACAGTGTGGGCAGTGAGCA
1850	CGAGGAAACACATTTCTTCGGGCC	GGCCCGAAGAAATGTGTTTCCTCG
1851	TGGCACCGGGTGGATTCTTGTCTA	TAGACAAGAATCCACCCGGTGCCA
1852	GAGGCACGGTGATAGTGGTTGTGC	GCACAACCACTATCACCGTGCCTC
1853	ATGCAGATGGATCTTTTCGACGC	GCGTCGAAAAAGATCCATCTGCAT
1854	TGCGATAGCCAAAGAGTCGAGGAC	GTCCTCGACTCTTTGGCTATCGCA
1855	ATGGCGTGTGAGCGAACTGCCTGG	CCAGGCAGTTCGCTGACACGCCAT
1856	CAATGCAGCTCGGAAGTCAGGTCG	CGACCTGACTTCCGAGCTGCATTG
1857	AGGATCAGTGCACATGTCCCCTCA	TGAGGGGACATGTGCACTGATCCT
1858	CACATCTTGGCTGTACCCGAGAA	TTCTCGGGTGACAGCCAAGATGTG
1859	CGCATTATCACCTCAATGCCAGTG	CACTGGCATTGAGGTGATAATGCG
1860	ACATCCGCAGACTCCCTATAGCCC	GGGCTATAGGGAGTCTGCGGATGT
1861	GTGAACCCGAACGAGGGGAGTCTC	GAGACTCCCTCGTTTCGGGTTTAC
1862	GCGTAGGGAATTTGCCTCACGACT	AGTCGTGAGGCAAATTCCTACGC
1863	TTTACGCGTCGCTCGGTTGTAGTG	CACTACAACCGAGCGACGCGTAAA
1864	GAGAGGCGTCTAGGCGGTTCTAGC	GCTAGAACCGCCTAGACGCCTCTC
1865	GCATGCTGATAACGAATGCTTCCC	GGGAAGCATTTCGTTATCAGCATGC
1866	CTGAAGCTCGTGTGCGATGAGGGA	TCCCTCATCGCACACGAGCTTCAG
1867	ACAACGGCATGAGGAGGCTTTTTC	GAAAAAGCCTCCTCATGCCGTTGT
1868	TTTGGAGACGCCAGTACGCGTGGT	ACCACGCGTACTGGCGTCTCCAAA
1869	GCTATCATTTGGTGTAAGCCCGCC	GGCGGGCTTACACCAAATGATAGC
1870	TCAACATCCAGGGCGGTGCTTGGT	ACCAAGCACCGCCCTGGATGTTGA

Serial No.: 09/940,185

Filed: August 27, 2001

1871	TTCGATGTAATCCCCAAAGATGCC	GGCATCTTTGGGGATTACATCGAA
1872	GGACCTTCGGCAGGTTATCGCCGT	ACGGCGATAACCTGCCGAAGGTCC
1873	AGTAAGAAGAGGCAGGCCCCACCT	AGGTGGGGCCTGCCTCTTCTTACT
1874	AACGGCTCCCCGTCGTA CTGCTTA	TAAGCAGTACGACGGGGAGCCGTT
1875	CCTATACCGTCGTGGTTCCACGTT	AACGTGGAACACGACGGTATAGG
1876	CCGCGCAGGCGCTAATACTCAAGG	CCTTGAGTATTAGCGCCTGCGCGG
1877	AAATGGGCCAGTGAAATCCTTGGT	ACCAAGGATTTTACTGGCCCATTT
1878	ACGGTTTCGAATACTGCTGGGCAG	CTGCCCAGCAGTATTCGAAACCGT
1879	CCGCTTGAGGTT CAGGTCAGAGCT	AGCTCTGACCTGAACCTCAAGCGG
1880	ATCGTGCCCCGAAGACACTTAAACG	CGTTTAAGTGTCTTCGGGCACGAT
1881	ACCTGAACCAGGGCGATTGCTTTA	TAAAGCAATCGCCCTGGTTCAGGT
1882	ACCTATACGCTGGGCTAAGCGGG	CCCGCTTAGCCCAGCGTATAGGGT
1883	TGTTTCGCGACTAGAACCTTTGC	GCAAAGGCTTCTAGTCGCGAAACA
1884	GAAGTTGGCGGCTCACCCGTATTA	TAATACGGGTGAGCCGCCAACTTC
1885	TGGCTACACCGCTTAGGAGGAACC	GGTTCCTCCTAAGCGGTGTAGCCA
1886	CCACAGTTGCGTGACTTACATCGC	GCGATGTAAGTCACGCAACTGTGG
1887	ACTGCCACTGCGTCTGAAGAGTGG	CCACTCTTCAGACGCAGTGGCAGT
1888	GCGCCAGCAAATTTCTGTGTGTGT	ACACCACACGAAATTTGCTGGCGC
1889	TGCCTCCGTCGAGCCGAATAGCCA	TGGCTATTCCGCTCGACGGAGGCA
1890	GTACAAACGGGCGCTATTTCTGTCC	GGACGAAATAGCGCCCGTTTGTAC
1891	GCTTCCCTGGCTCTGAACGGAAAC	GTTTCCGTT CAGAGCCAGGGAAGC
1892	CGGCTACCCAGGCAGATAAGCTGA	TCAGCTTATCTGCCTGGGTAGCCG
1893	GGTTGGACCCGACAGGGAATTTCC	GGAAATTCCTGTGCGGTCCAACC
1894	GGGGAATACCCGGCGTTTGTAAATA	TATTACAAACGCCGGGTATTCCCC
1895	TGGTTCGGTGAGGTTATGTTCCGGT	ACCGAACATAACCTCACCGAACCA
1896	TCGGTAGGGTT CAGTCGCTGAGGA	TCCTCAGCGACTGAACCCTACCGA
1897	TTCGGAGTGTGCCGGTGCTAGTAC	GTA CTAGCACCGGCACACTCCGAA
1898	TCGTA CTGGAATGATGGCCGGGCC	GGCCCGGCCATCATTCCAGTACGA
1899	TCCGTCGACCGTCCAGCGAAGTTT	AAACTTCGCTGGACGGTCGACGGA
1900	AGGGAATATAACAACCCGCGCAC	GTGCGCGGTGTTGTTATATTCCCT
1901	ATGTCCCGGAAACCAGCTACCTCA	TGAGGTAGCTGGTTTCCGGGACAT
1902	ACCAGCGACTTAGATAGCCGTCCG	CGGACGGCTATCTAAGTCGCTGGT
1903	GGAAAACCTCCTTTGCGTCAACCA	TGGTTGACGCAAAGGAGGTTTTCC
1904	ACGTGCGTGCATACCCAAGAGGAC	GTCCTCTTGGGTATGCACGCACGT
1905	ACGCCACTTTCCTAGAACCAACG	CGTTGGTTCTAGGGAAAGTGGCGT
1906	CGAAGTACGCAATAGTGCCACCCT	AGGGTGGCACTATTGCGTACTTCG
1907	GATCCCGGCGGATCACCTATCAAT	ATTGATAGGTGATCCGCCGGGATC
1908	AGAAAGCGACCGTTTCAGGCTAGC	GCTAGCCTGAAACGGTCGCTTTCT

A 9

Serial No.: 09/940,185

Filed: August 27, 2001

1909	CGCTCCCTTTTCATAGTCCTCTCCG	CGGAGAGGACTATGAAAGGGAGCG
1910	GTGGGTGGTCATAACGACAGCAGA	TCTGCTGTCGTTATGACCACCCAC
1911	CTGGAGGCTGCATCGTTCGTAACA	TGTTACGAACGATGCAGCCTCCAG
1912	CACCATGAGTTTCGGAGCGAGGAT	ATCCTCGCTCCGAAACTCATGGTG
1913	CAAGCTGCGTTTCGATGAGAGATTG	CAATCTCTCATCGAACGCAGCTTG
1914	CCTGGGAGCAATGACCGCTCTGGT	ACCAGAGCGGTCATTGCTCCCAGG
1915	TCCGGCGCTCTACCAAGATGAGAC	GTCTCATCTTGGTAGAGCGCCGGA
1916	CGACCGCGTCGCGTATACTATCCG	CGGATAGTATACGCGACGCGGTCTG
1917	AACATTGCTAGTGGGGTCCAACA	TGTTGGACCCCACTAGCGAATGTT
1918	TGTATGATCATCCGACCGAGCAGC	GCTGCTCGGTCCGATGATCATACA
1919	AGTGCGCCGAGAGGGTGAATAGAC	GTCTATTCACCCTCTCGGCGCACT
1920	AGGCTTGTTCTGGACCAGCACCAT	ATGGTGCTGGTCCAGAACAAGCCT
1921	GGGGCCACATAAAGAATTCCGAAC	GTTCCGAATTCTTTATGTGGCCCC
1922	TGGTGAAGATAAATCCGCATGGCA	TGCCATGCGGATTTATCTTCACCA
1923	ATTTCCACCACGCTCTTGCCAAAT	ATTTGGCAAGAGCGTGTTGGAAAT
1924	CGCGTAAAGCTGTCACCGATGACC	GGTCATCGGTGACAGCTTTACGCG
1925	TCCCCAACCGGTAACAACAGCGAC	GTCGCTGTTGTTACCGGTTGGGGA
1926	CCTCTGCTCGCCTTACACCCATGG	CCATGGGTGTAAGGCGAGCAGAGG
1927	CAAGCTGCTCCTGTGCTGAAGGGC	GCCCTTCAGCACAGGAGCAGCTTG
1928	AAACGAACGATGGTCGGTAGACCG	CGGTCTACCGACCATCGTTCGTTT
1929	TCAGTTCGATGGCTATTGCGCCTC	GAGGCGCAATAGCCATCGAACTGA
1930	GGCTCTCAACGGACGCAAATCATA	TATGATTTGCGTCCGTTGAGAGCC
1931	AGTAGAGTGTTGCGGCTGCCGATC	GATCGGCAGCCGCAACACTCTACT
1932	AGACACTAGACCGCCGTGACCTGA	TCAGGTCACGGCGGTCTAGTGTCT
1933	ACCGAGCACCGAATTTCTTGTCC	GGACAAGGAAATTCGGTGCTCGGT
1934	CCGTGGCCAAGATACGAACGAATT	AATTCGTTTCGTATCTTGCCACGG
1935	CCTCCTACAGCATCCACATGAGGG	CCCTCATGTGGATGCTGTAGGAGG
1936	CACTCGGCAAATACGTATGCGCAT	ATGCGCATACGTATTTGCCGAGTG
1937	ACCGAGTTGAAGCACGAATTTGGG	CCCAAATTCGTGCTTCAACTCGGT
1938	GACCACCTCGGAAGATCGTTCTGC	GCAGAACGATCTTCCGAGGTGGTC
1939	TCAACTGGGCAAACGAAGAGCACA	TGTGCTCTTCGTTTGCCAGTTGA
1940	GCTTAGCCTCACACGTGCATACCA	TGGTATGCACGTGTGAGGCTAAGC
1941	CTGCGGTCTCCAAGTACCATTTCTG	CGAAATGGTACTTGGAGACCGCAG
1942	GTTCCGTATTACGGCGGCCATAAG	CTTATGGCCGCCGTAATACGGAAC
1943	ATCGACGCAACCGGATAGTCTCTG	CAGAGACTATCCGTTGCGTCGAT
1944	CGCAGATAAACCGGCATCTTTCAG	CTGAAAGATGCCGTTTATCTGCG
1945	ACCTGCCAATACGGGTCTACGGTT	AACCGTAGACCCGTATTGGCAGGT
1946	ACACCTGTTGCCATGCTGATCCGT	ACGGATCAGCATGGCAACAGGTGT

A9

Serial No.: 09/940,185

Filed: August 27, 2001

A9

1947	AAACTGTCTACTGCGCAATTCCGC	GCGGAATTGCGCAGTAGACAGTTT
1948	GCAACTAGCCCGTGCTAGGATCGT	ACGATCCTAGCACGGGCTAGTTGC
1949	TCGTAGTGGTGGATTGTTGTGCGT	ACGCACAACAATCCACCACTACGA
1950	GGCTTACTCCTCAATTGCGACACG	CGTGTGCAATTGAGGAGTAAGCC
1951	CACGACTCCCTGCCAGATTTGATT	AATCAAATCTGGCAGGGAGTCGTG
1952	CTTAGACGTGCGCAATGTCACGTC	GACGTGACATTGCCGACGTCTAAG
1953	CTCAGAGCACAATCTGCCCTGCCT	AGGCAGGGCAGATTGTGCTCTGAG
1954	GCTAGGAAAGTCGGCATTTCATGGG	CCCATGAATGCCGACTTTCCTAGC
1955	AAAGCCCCAAAATTCCGCCTAACC	GGTTAGGCGGAATTTTGGGGCTTT
1956	GCGCAACGCTAAGGGACTATCAAG	CTTGATAGTCCCTTAGCGTTGCGC
1957	CGTCCGCTGGGATGAGTCTCCTGC	GCAGGAGACTCATCCCAGCGGACG
1958	ACAGGCCTCGTGATTGGTGTGGGT	ACCCACACCAATCACGAGGCCTGT
1959	CATTCTCCTTCCGGGACCACGCCT	AGGCGTGGTCCCGGAAGGAGAATG
1960	TCGGAGTTGACCAAGCTCAGTGCG	CGCACTGAGCTTGGTCAACTCCGA
1961	ACGCGCCACTGCAATTGCAAACAC	GTGTTTGCAATTGCAGTGGCGCGT
1962	AGTTCATGGAGCCGGCGTATTGTT	AACAATACGCCGGCTCCATGAAC
1963	ACGTTTAAATGCGGGGCCCCGCTAC	GTAGGCGGGCCCCGCATTAAACGT
1964	TGAGGCTTTAGCCTACGCGCAGGT	ACCTGCGCGTAGGCTAAAGCCTCA
1965	CAGCGTTATGAGCGCGGAGTTTAT	ATAAACTCCGCGCTCATAACGCTG
1966	GTCCACGTGACCACGGATAGTTGG	CCAACATCCGTGGTCACGTGGAC
1967	GATTATGCTCCTACGCCTGCTCCG	CGGAGCAGGCGTAGGAGCATAATC
1968	TCGTCAAGGGCATGATGTGTGGGA	TCCCACACATCATGCCCTTGACGA
1969	GATGGACCGCCAAAGACACCTTGA	TCAAGGTGTCTTTGGCGGTCCATC
1970	TACACGAGGATGGGGTCAAGCTTT	AAAGCTTGACCCCATCCTCGTGTA
1971	ACACGCACAAAACGTTTGAAAGGC	GCCTTTCAAACGTTTTGTGCGTGT
1972	GTTATCGTGGGCGGATGGTACTGA	TCAGTACCATCGGCCACGATAAC
1973	ACATGACCGTATCCGCCTGCTTCG	CGAAGCAGGCGGATACGGTCATGT
1974	GAAGGCGAACCCTGAACTACGC	GCGTAGTTTCAGTGGTTCGCCTTC
1975	TGACTTTTGCAACGGGTGGAACCA	TGGTTCCACCCGTTGCAAAAGTCA
1976	TGAATTCGTAGTTTTTGGGTGCGG	CCGCACCCAAAACCTACGAATTCA
1977	AGCATTTATGAAGCGGCCATTGCG	CGCAATGGCCGCTTCATAAATGCT
1978	TGCTCCTCGCGTTGGTACCGTGAG	CTCACGGTACCAACGCGAGGAGCA
1979	CGCAGCAAGAAACAGCAACTGTTG	CAACAGTTGCTGTTTCTTGCTGCG
1980	AGACGCTTGGAGTGAAAACTCGGA	TCCGAGTTTTCACTCCAAGCGTCT
1981	CATTCTAGAAATGCCCAAATGGA	TCCATTTGGGGCATTCTACGAATG
1982	CCAGAAGGTTCTGGGACCCGTCGTG	CACGACGGGTCCCGAACCTTCTGG
1983	GAGAAGCCGGTTCTCAGAGCACAT	ATGTGCTCTGAGAACCGGCTTCTC
1984	TTGCGTTGCAAGATATCTGGCCCG	CGGGCCAGATATCTTGCAACGCAA

Serial No.: 09/940,185

Filed: August 27, 2001

A9

1985	GGGTTGCATGTTCAAGCAAGACGA	TCGTCTTGCCTGAACATGCAACCC
1986	CTCACGAAGGTGACATATCACGCC	GGCGTGATATGTCACCTTCGTGAG
1987	GCCCGAGATACGGGTTCAAAAAGA	TCTTTTGAACCCGTATCTCGGGC
1988	CATCTTCGCGCTTCTTCACTCCGC	GCGGAGTGAAGAAGCGCGAAGATG
1989	TTACACGGTAAGCGTACGGCCGCC	GGCGGCCGTACGCTTACCGTGTA
1990	ACCTTCGGACAATGTGGCGTTCGC	GCGAACGCCACATTGTCCGAAGGT
1991	TGAATGGTTCTGCTAGGCCACAC	GTGTGGGCCTAGCAGAACCATTCA
1992	CACGCCTGTCTGACATATGGATGC	GCATCCATATGTCAGACAGGCGTG
1993	CGCCTCAACCAATCTGAGAACGT	ACGTTCTCAGATTGGGTTGAGGCG
1994	TTACGCTTACTGCGAGCTGGGTCC	GGACCCAGCTCGCAGTAAGCGTAA
1995	GGCTTGTGGGGCAATACGCATCTT	AAGATGCGTATTGCCCCACAAGCC
1996	CACTCTCCTTTGGATGCGGAACAA	TTGTTCCGCATCCAAAGGAGAGTG
1998	GACCAGCCATCACGTAACGGCCCT	AGGGCCGTTACGTGATGGCTGGTC
1999	AGGAACCGGATGTGGTTATGGAGC	GCTCCATAACCACATCCGGTTCCT
2000	ATCCATGGGCAACTGAGCCTATGC	GCATAGGCTCAGTTGCCATGGAT
2001	GGAACAGCACTTGTTACCGCCAC	GTGGGCGGTAACAAGTGCTGTTCC
2002	TGGCTCGCTTCAAGCCTGTTTGCT	AGCAAACAGGCTTGAAGCGAGCCA
2003	CAAACGTGAGGTCATGACCACCAT	ATGGTGGTCATGACCTCACGTTTG
2004	ACCGATGTCTTGAAGTCCGGAGGT	ACCTCCGGACTTCAAGACATCGGT
2005	CGAAAATGCATGATGATCTCCCCT	AGGGGAGATCATCATGCATTTTCG
2006	TTTGGTATTCTCGCTGCACCGTTG	CAACGGTGCAGCGAGAATACCAAA
2007	GCGTACTCAACCACATTCCCGACC	GGTCGGGAATGTGGTTGAGTACGC
2008	AGCAAACAACAGCGGTCCGAGCAT	ATGCTCGGACCGCTGTTGTTTGCT
2009	GGACTAGGAGCGGGGATAGCTGAG	CTCAGCTATCCCCGCTCCTAGTCC
2010	CCTTAACGAAAACCTGTGACCGC	GCGGTCGACAGGTTTTCGTTAAGG
2011	CTCGATCGCATAAGCAAGAAACCG	CGGTTTCTTGCTTATGCGATCGAG
2012	CCCGTTGTTTGGGCGACAAAAGT	ACTTTTGTGCGCCCAAACAACGGG
2013	CGGCGGCTCTCGCATGATCTCGTT	AACGAGATCATGCGAGAGCCGCCG
2014	CGGATGGAGAGGAGTCTACGTCCC	GGGACGTAGACTCCTCTCCATCCG
2016	CAGAACAATATCGTGCGTCAACCG	CGGTTGACGCACGATATTGTTCTG
2017	CCTTTGCGCGCTCCGAGTAAGGTA	TACCTTACTCGGAGCGCGCAAAGG
2018	GGAAACGGCACCTATCTGTCTGTA	TCACGACAGATAGGTGCCGTTTCC
2019	CGACCGACAAAACCAAATGCCGCC	GGCGGCATTTGTTTTGTGCGGTCG
2020	CCAAGGGTGTGGGAGCTGAAGAGA	TCTCTTCAGCTCCCACACCCTTGG
2021	TTAAGTGCGCATAGTCCTCGTGGG	CCCACGAGGACTATGCGCACTTAA
2022	GCCTGGTGGGGTAAGTCATGATGC	GCATCATGACTTACCCACAGGC
2023	GAGCAGCAGATTGATGCGCTTATG	CATAAGCGCATCAATCTGCTGCTC
2024	TGCGCCAACTTCCGGAATATTTGC	GCAAATATTCCGGAAGTTGGCGCA

Serial No.: 09/940,185

Filed: August 27, 2001

2025	AACCCCATCATGAAATGCTCTCCG	CGGAGAGCATTTTCATGATGGGGTT
2026	GTCCAACGGTACTGGCGTGATGTT	AACATCACGCCAGTACCGTTGGAC
2027	ACTCGGCTGATCGTGAGATGGTGA	TCACCATCTCACGATCAGCCGAGT
2028	ATTCGTGGGCGCATCTCGGAATGT	ACATTCCGAGATGCGCCACGAAT
2029	TCCCGTCCTGTAATCCAGGGAACA	TGTTCCCTGGATTACAGGACGGGA
2030	CTTCGCTGCACCTACATTGCGCCA	TGGCGCAATGTAGGTGCAGCGAAG
2031	GCGTGTAGATGACTGTGCTTTGGG	CCCAAAGCACAGTCATCTACACGC
2032	CTATGGTATCGAGACATCGGCGGA	TCCGCCGATGTCTCGATACCATAG
2033	CCTCGTACTCCGTCGTATGCACAA	TTGTGCATACGACGGAGTACGAGG
2034	TGGTGCGTCCGTAGTGCCTGCACT	AGTGCAGGCACTACGGACGCACCA
2035	CGCGATCCTAGTTGAAAGCTTTGC	GCAAAGCTTTCAACTAGGATCGCG
2036	ACGATCCAGGTGTTGGGCACTAAG	CTTAGTGCCCAACACCTGGATCGT
2037	CCAATCTAGGATACACCACGCCCG	CGGGCGTGGTGTATCCTAGATTGG
2038	GATACGTGGGGTATAGGCGGGCCC	GGGCCC GCCTATACCCACGTATC
2039	CATGGAACAAACCGTCGTAGGGGA	TCCCCTACGACGGTTTGTTCATG
2040	ACACTCGCGCAGTATTGAGTCGT	ACGACTCGAATACTGCGCGAGTGT
2041	CTCAGTCTCGAAGGTGATCCGACC	GGTCGGATCACCTTCGAGACTGAG
2042	TCCCAATCCCCGTGGTATCGTCGT	ACGACGATACCACGGGGATTGGGA
2043	AATCAACGTAGTTCCGGTGGTCCG	CGGACCACCGGAACACTACGTTGATT
2044	CTTAACAACCCAGGGGTTTGGGCT	AGCCCAAACCCCTGGGTTGTTAAG
2046	CTACCGCTGCATGGCGTTAGATTG	CAATCTAACGCCATGCAGCGGTAG
2047	TTATTGGTGGCGGACGGAGTGAGT	ACTCACTCCGTCCGCCACCAATAA
2048	TTAAGGGTGAACCTCAACCGCGTGA	TCACGCGGTTGAGTTCACCCTTAA
2049	TTTGATTGAAACGCTGCGCACTAC	GTAGTGCGCAGCGTTTCAATCAAA
2050	TCATGTGTAGGTCGCGGCCGTCAC	GTGACGGCCGCGACCTACACATGA
2051	CTCCGAACCTTCTGGGCCTCTTTT	AAAAGAGGCCCAAGAGTTCCGGAG
2052	CTGTTGCCATTGGCCCGACACTC	GAGTGTCGGGCCAATGGGCAACAG
2053	CACGATCGCTGAGCAACACATCAC	GTGATGTGTTGCTCAGCGATCGTG
2054	CGGATCATAAGCGTCCGCCTTCGT	ACGAAGGCGGACGCTTATGATCCG
2055	AGGTTAACGCAACATGTGATCCGC	GCGGATCACATGTTGCGTTAACCT
2056	GGGAAAAACAGCTAAGCCTTGCGA	TCGCAAGGCTTAGCTGTTTTTCCC
2057	ACTTATTGCCGGGATCCGTACACA	TGTGTACGGATCCCGGCAATAAGT
2058	TGCGGTCTGGAAAGGAAGGGAGGG	CCCTCCCTTCCTTTCCAGACCGCA
2059	GCTGCCACCTGGACATCGCATACA	TGTATGCGATGTCCAGGTGGCAGC
2060	GCAGGCATGACAGTGGCGTAGTAC	GTA CTACGCCACTGTCATGCCTGC
2061	GCGGCCCTGATGGTTTGGCTGAGC	GCTCAGCCAAACCATCAGGGCCGC
2062	TCCCCATTTAGTCCCCTCCATCAC	GTGATGGAGGGGACTAAATGGGGA
2063	GCAACACAAATGCGAGCGTAGGAG	CTCCTACGCTCGCATTTGTGTTGC

A9

Serial No.: 09/940,185

Filed: August 27, 2001

2064	GGCGTTTGTATTGAGCCACGTAG	CTACGTGGCTCGAATACAAACGCC
2065	GGTAACGTGCGACGTGGAATTCCG	CGGAATTCCACGTGCGACGTTACC
2066	ACTTCACAACGCTCCGTTGGACAC	GTGTCCAACGGAGCGTTGTGAAGT
2067	CCGAATTATAAAGCGCAAGGCACA	TGTGCCTTGCGCTTTATAATTCCG
2068	GGACCCGATAAGACTCTGACGCCG	CGGCGTCAGAGTCTTATCGGGTCC
2069	ACCCGTTTCTCGTAGGAACCTGCT	AGCAGGTTCTACGAGAAACGGGT
2070	CACGTTGACTGTATCTGGTTGCC	GGCAACCAGATACAGTCGAACGTG
2071	CCTCGGATGGGCCCATGACCTTGA	TCAAGGTCATGGGCCCATCCGAGG
2072	GGACGCCTGCTGTAGGGGTTTGAT	ATCAAACCCCTACAGCAGGCGTCC
2073	CTCGAGCGTGGGCTAAAAGAGCAT	ATGCTCTTTAGCCACGCTCGAG
2074	TTTACTTCTTAGGGCGCGTTTGGG	CCCAAACGCGCCCTAAGAAGTAA
2075	ACCACCAACATAGCGCGCACTAGT	ACTAGTGC GCGCTATGTTGGTGGT
2076	TGGTTACACGGCAGCCCGCGTAAG	CTTACGCGGGCTGCCGTGTAACCA
2077	TTATGGTACGTTGCTGCGTGCGGG	CCCGCACGCAGCAACGTACCATAA
2078	ACCGCGGATCTAACGAATCCCATT	AATGGGATTCTGTTAGATCCGCGGT
2079	CATGATCCCGCCCTTAGGTTAAGC	GCTTAACCTAAGGGCGGGATCATG
2080	TACCGCTTCAAAGGGTTGCCGAAT	ATTCGGCAACCCTTTGAAGCGGTA
2081	GCACCGCGTCAATATTACCGAGGA	TCCTCGGTAATATTGACGCGGTGC
2082	GTGTCGCGGCTTTACAGAAGGAGA	TCTCCTTCTGTAAAGCCGCGACAC
2083	GCAAGCCATACCGCAATAAACTCG	CGAGTTTATTGCGGTATGGCTTGC
2084	ATGAGGTCGTGCTGCGTTCACGAG	CTCGTGAACGCAGCACGACCTCAT
2085	CGAGACTAGTGCCGATGCAGGGTA	TACCCTGCATCGGCACTAGTCTCG
2086	GCCTCATCATAGACGCTGGATGCA	TGCATCCAGCGTCTATGATGAGGC
2087	GACAGGCGTCGGTAAGCTCTCAAG	CTTGAGAGCTTACCGACGCCTGTC
2088	GCTACGAATCTTCCCTGTGCGCCAC	GTGGCGACAGGGAAGATTTCGTAGC
2089	TTTGGCAGAACGTACCAAGTGGGGT	ACCCCACTGGTACGTTCTGCCAAA
2090	GGACAATAAGCACCGGAGAATGCG	CGCATTCTCCGGTGCTTATTGTCC
2091	TCATGAACCTTCTGATGCCGCGAA	TTCGCGGCATCAGAAGGTTTCATGA
2092	CGCCGCATTACCTTAAAAACGTGC	GCACGTTTTTAAGGTAATGCGGCG
2093	ACGAGTCCAACCGCCTCATTGATT	AATCAATGAGGCGGTTGGAAGTCTG
2094	GCGAAGAGTTGCTACTCTTCCGCC	GGCGGAAGAGTAGCAACTCTTCGC
2095	CGTCGGCAACAATCTTTTCGTGA	TCACGAAAAAGATTGTTGCCGACG
2096	AATCCTGTGCACCCGTGAGACGCG	CGCGTCTACGGGTGCACAGGATT
2097	AACCTATATGCATCAACGCGAGCC	GGCTCGCGTTGATGCATATAGGTT
2098	GAAC TTGGCAAACAGCCCGGAAA	TTTCCGGGCTGTTTTGCCAAGTTC
2099	CTCTATGGCCGTTTGCCGTCTGCA	TGCAGACGGCAAACGGCCATAGAG
2100	AGTGCACCGGGTTGTGGACACAAT	ATTGTGTCCACAACCCGGTGCAC
2101	CCTGGCTTTTCACACGCCAAGAAA	TTTCTTGGCGTGTGAAAAGCCAGG

A9

Serial No.: 09/940,185

Filed: August 27, 2001

2102	CACTCAGCGTAGCCTGAAGCCTGG	CCAGGCTTCAGGCTACGCTGAGTG
2103	GAATTATCGACCGCAGCGGTGTCG	CGACACCGCTGCGGTGATAATTC
2104	GTGACATCACATGGTGGCCGAGCG	CGCTCGGCCACCATGTGATGTCAC
2105	AGCACCTTGCCGAGTCACCAAGTGA	TCACTGGTGACTCGGCAAGGTGCT
2106	TAGGTTGCAGGAATGGTGGGCACC	GGTGCCCAACATTCTGCAACCTA
2107	GTCCCATACGTGTGGTACGCGGAT	ATCCGCGTACCACACGTATGGGAC
2108	TCGGATACTCTCGCGTGCCACGGG	CCCGTGGCACGCGAGAGTATCCGA
2109	CAACGTTGCCCCCTAAGCCCAAAT	ATTTGGGCTTAGGGGCGAACGTTG
2110	GTTAGGTCACCGCGGCATATCCTA	TAGGATATGCCGCGGTGACCTAAC
2111	GTTACCGGCCTCTACTTGGGTTT	AAACCCAAGTAGAGGCCGGTGAAC
2112	AATCCGCGTCTAGGTCATGTGGTC	GACCACATGACCTAGACGCGGATT
2113	GCTACGCCTCTGGAGGTGGTACCC	GGGTACCACCTCCAGAGGCGTAGC
2114	CAGGGAATGCTACAAAGGGTCCAA	TTGGACCCTTTGTAGCATTCCCTG
2115	AAGGGTTAGCTGCCCGGTTAACAG	CTGTTAACCGGGCAGCTAACCTT
2116	CCTCGCAAGCGCGATATTTATGCC	GGCATAAATATCGCGCTTGCGAGG
2117	GCCTCCCGGTCATGGTCAAGGGAA	TTCCCTTGACCATGACCGGGAGGC
2118	GCTGTTGAGCGGCGACCTGTGCAC	GTGCACAGGTCGCCGCTCAACAGC
2119	CGCTGACTTAGCTCTGATGTGCCG	CGGCACATCAGAGCTAAGTCAGCG
2120	TTCATGGCATTTCATCAGGAAGGAA	TTCTTCGTGATGAATGCCATGAA
2121	TAGTGTTATGCCC GCGTGTGAATG	CATTCACACGCGGGCATAACACTA
2122	CATGTAAGGGCACGGTCGTGGGCA	TGCCACGACCGTGCCCTTACATG
2123	CAGGAAGCTCGCTCCGTGATGCAC	GTGCATCACGGAGCGAGCTTCCTG
2124	CCTGCTGATAGCAACCTCACTGCA	TGCAGTGAGGTTGCTATCAGCAGG
2125	ACTACGAGGGGCGAGGGTCTAGGCG	CGCCTAGACCCTGCCCTCGTAGT
2126	CATAATGTGGGTGCTGACGCCGAT	ATCGGCGTCAGCACCCACATTATG
2127	TAGCGAATCCACACAGAGCCGCTC	GAGCGGCTCTGTGTGGATTGCTA
2128	TCGCGAAATCCCTAAATCCTGTGC	GCACAGGATTTAGGGATTTGCGGA
2129	TGGCACGAATCAAGCCACCAACTC	GAGTTGGTGGCTTGATTCTGTCCA
2130	GCGGACCGTCTTTGCTATCTGACG	CGTCAGATAGCAAAGACGGTCCGC
2131	AGGCCCGCCTTGTAATTGGTCAT	ATGACCAATTACAAGGCGGGGCCT
2132	CTGGTCCCATACGCCGCTGACTAG	CTAGTCAGCGCGTATGGGACCAG
2133	TGCTAACTGCGGCCCTACAGAGTC	GACTCTGTAGGGCCGCAGTTAGCA
2134	TGGTTTTATGTTCCGGTAGCGTCCG	CGGACGCTACCGAACATAAAACCA
2135	AGCTCAAACCTCTCCACGGGATG	CATCCCGTGGGAGAAGTTTGAGCT
2136	CGCGAAGATAGTGAAATCCGCATC	GATGCGGATTTCACTATCTTCGCG
2137	GAGTGAAACCTCTCGCGGGTTGCA	TGCAACCCGCGAGAGGTTTCACTC
2138	TCGAATGCTCTGCAGTGACGTCAA	TTGACGTCACTGCAGAGCATTCGA
2139	AGGTGGCAATGATCGACGACCCTG	CAGGGTCGTGATCATTGCCACCT

Serial No.: 09/940,185

Filed: August 27, 2001

2141	GTCCGAGCCGTGCAAAGCAATAA	TTATTGCTTTGCACGGCTCCGGAC
2143	CTTTTGGGGATTAGAGGCCGACAA	TTGTCGGCCTCTAATCCCCAAAAG
2144	GGCATAAAGGCTTCCGTTCTGTGTC	GACAGGAACGGAAGCCTTTATGCC
2145	GCGGACCGTAAAGCGGGCAGATAG	CTATCTGCCCGCTTTACGGTCCGC
2146	TTTCAAGAGTGCATCGAATCCACG	CGTGGATTTCGATGCACTCTTGAAA
2147	CCGGCATCCCTTCTCGCTGTTGCC	GGCAACAGCGAGAAGGGATGCCGG
2148	ACACAGAGACGCGAACGGAGTGCA	TGCACTCCGTTTCGCGTCTCTGTGT
2149	AGCGGCATTCTCCCACTCGTTACT	AGTAACGAGTGGGAGAATGCCGCT
2150	GGAGCGTACTGCGCCTCGCAAGTC	GACTTGCGAGGCGCAGTACGCTCC
2151	AAACCCGAATGACACGGCAGATAA	TTATCTGCCGTGTCAATTCGGGTTT
2153	AACCAGCGGATCGATAAACGACA	TGTCGTTTTATCGATCCGCTGGTT
2154	GGTGTCCACCCGTTAACGCCGGTA	TACCGGCGTTAACGGGTGGACACC
2155	AGCGCGACGTGGCTTGCCGTTAAA	TTTAACGGCAAGCCACGTCGCGCT
2156	TCCCACGGCTATAGGTCCAACGAC	GTCGTTGGACCTATAGCCGTGGGA
2157	ATCAACGAACGATGCCGTTAGGTG	CACCTAACGGCATCGTTCGTTGAT
2158	GAGGCTAAGCCGTATGGCCGAGGC	GCCTCGGCCATACGGCTTAGCCTC
2159	ACGGTCCGAAATGGTTAGAGGCAC	GTGCCTCTAACCATTTCGGACCGT
2160	ACGCAAACCATTCTCGAGTAGGC	GCCTACTCGAGGAATGGTTTGCGT
2161	TTACACGCTCGCTATTGGGCCATA	TATGGCCCAATAGCGAGCGTGTA
2162	CTCGGCACGGGTTTAGAACGCCGG	CCGGCGTTCTAAACCCGTGCCGAG
2163	ATTCGGTAAGGTATCGGGCTAGCG	CGCTAGCCCGATACCTTACCGAAT
2164	AGCACACCGTTATACATGACGGCG	CGCCGTCATGTATAACGGTGTGCT
2165	AGTCCCTGCCGTTTCGCTCATGGAA	TTCCATGAGCGAACGGCAGGGACT
2166	GGGCTTATGACCAGTCAGGTTGGA	TCCAACCTGACTGGTCATAAGCCC
2167	GGTCACCACACGAGTGCCTGGTCT	AGACCAGGCACTCGTGTGGTGACC
2168	TTGATCGTGTCTCCCGAAACCCTC	GAGGGTTTCGGGAGACACGATCAA
2169	ATTGTCGCGATCGGCATTTCTTAA	TTAAGAAATGCCGATCGCGACAAT
2170	GGGTCCAACGACTTCTCGCTGCTG	CAGCAGCGAGAAGTCGTTGGACCC
2171	CAAATTCTTGGGGGCCATAGTGG	CCACTATGGCCCCCAAGGAATTTG
2172	CCAGAGTATCCGCCGTTAGACGGT	ACCGTCTAACGGCGGATACTCTGG
2173	TCCTGCAGATCATCTCGTGTCTGG	CCAGACACGAGATGATCTGCAGGA
2174	TGCGGGAGATTTGAACAAGCTGTA	TACAGCTTGTTCAAATCTCCCGCA
2175	TTAGACGCCGAGCTAGGCAACGTC	GACGTTGCCTAGCTCGGCGTCTAA
2176	TTTCGGCAGAATCTCCGATTCAAC	GTTGAATCGGAGATTCTGCCGAAA
2177	TGGCGAGCAGACCTACAAGACAGA	TCTGTCTTGTAGGTCTGCTCGCCA
2178	GGCGACAGACCGGTACATCGGCCA	TGGCCGATGTACCGGTCTGTGCCC
2179	TCTAGACCTGCGTTTCGTGGGACC	GGTCCCACGAAACGCAGGTCTAGA
2180	GCCGAGCGTGGTACCATACGTTCA	TGAACGTATGGTACCACGCTCGGC

A9

Serial No.: 09/940,185

Filed: August 27, 2001

2181	TAATCACACCCGCTTTCTGTGGCT	AGCCACAGAAAGCGGGTGTGATTA
2182	GGCCGGAGCCATTGGACACTTCTT	AAGAAGTGTCCAATGGCTCCGGCC
2183	CCTGTAGACCTGCATGGATCGCTG	CAGCGATCCATGCAGGTCTACAGG
2185	ATCGCCGTTCCCGCAAATAAGCA	TGCTTATTTTGCGGGAACGGCGAT
2186	TGGATCAACGGGGTAGTGAAAACG	CGTTTTCACTACCCCGTTGATCCA
2187	AAGCGACGATGCTTTCTTGAGCTG	CAGCTCAAGAAAGCATCGTCGCTT
2188	CACGGGCACGTGTTCTACGCTTGC	GCAAGCGTAGAACACGTGCCCGTG
2189	ACGGGCTGGGACAAGAGCTAGAAA	TTTCTAGCTCTTGTCCAGCCCGT
2190	GGTAACTGGCTCCGCTCTCACATC	GATGTGAGAGCGGAGCCAGTTACC
2191	ACTCTGGCTGTTGGCGAACGTGAC	GTCACGTTGCGCAACAGCCAGAGT
2192	GACCGAGGACCAGTCCTTGCTCTC	GAGAGCAAGGACTGGTCCTCGGTC
2193	AGTAGCTCTTGCGGCCTAACGGCA	TGCCGTTAGGCCGCAAGAGCTACT
2194	TTCTTGTCTGGGGGAGAGCAGTG	CACTGCTCTCCCCCAGGACAAGAA
2195	TTAGCAGGGAGGTTGTGCGCTCAT	ATGAGCCGACAACCTCCCTGCTAA
2197	AGAACGTGGATTGTACGCTCCGCC	GGCGGAGCGTACAATCCACGTTCT
2198	CTTCACAGCCTGGAGCCACCAATG	CATTGGTGGCTCCAGGCTGTGAAG
2199	GAGATCGATGAAACGCACCAGCGG	CCGCTGGTGCGTTTTATCGATCTC
2200	GGGTCCAGAGTTGGTGTGGGATAA	TTATCCCACACCAACTCTGGACCC
2201	CCGTCCACCCCAGATAGGAATCAC	GTGATTCTATCTGGGGTGGACGG
2202	TGCCTCGCTTCTGTGAATCTACGA	TCGTAGATTACAGAAGCGAGGCA
2203	GATCACAGCGTCCGCGCATAACGG	CCGTTATGCGCGGACGCTGTGATC
2204	ATGACGCCTTACATGACGCACCTT	AAGGTGCGTCATGTAAGGCGTCAT
2205	GCGTGGAATAACGCCCTTAGTTCA	TGAACTAAGGGCGTTATTCCACGC
2206	GGTCTACCATTTCTCGCCCGACCG	CGGTCGGGCGAGAAATGGTAGACC
2207	ACACCTCTCTGGCGTAGACGCTCA	TGAGCGTCTACGCCAGAGAGGTGT
2208	GTAGAGGTGCTCAGGACTCGTCGC	GCGACGAGTCCTGAGCACCTCTAC
2209	GTAAGCAGGAGGCGAAGGCGCGAA	TTGCGCCTTCGCCTCCTGCTTAC
2210	TCTAAGGGCCGTTTCAATCGACCT	AGGTCGATTGAAACGGCCCTTAGA
2211	AACCTGATTTCAAGGTCAGCCCGA	TCGGGCTGACCCTGAAATCAGGTT
2212	GTCACGCGATTGGCCACCTATTA	TAATAGGTGGGCCAATCGCGTGAC
2213	ACGATGCCGCGCATGTAACCTAGT	ACTAGGTTACATGCGCGGCATCGT
2214	TGAGAGATGTCTCGTCAACGCCTG	CAGGCGTTGACGAGACATCTCTCA
2215	GCATATCTCGCGGTGACAGACGAA	TTGCTCTGTCACCGCGAGATATGC
2217	GACCCAACGTCGAAATTGTGCGAT	ATCGCACAAATTCGACGTTGGGTC
2218	TGAAAATCGGGGCATCTAGTTTGG	CCAAACTAGATGCCCCGATTTTCA
2219	CCGCGAAAAGGATTTGTGTACGCA	TGCGTACACAAATCCTTTTCGCGG
2220	CATTCCATTTATCCGCAGTTCGCT	AGCGAACTGCGGATAAATGGAATG
2221	CCTGTCTGTGAGCCAGCGTCTAT	ATAGACGCTGGCTCGACAGACAGG

A9

Serial No.: 09/940,185

Filed: August 27, 2001

2222	TCAGCGCGGCTAAACAAGTTATGC	GCATAACTTGTTTAGCCGCGCTGA
2223	ACGCCTACGAACGACCCAAGAGAG	CTCTCTTGGGTCGTTCTAGGCGT
2224	TGCGCATCTACCATTGTGTGGATC	GATCCACACAATGGTAGATGCGCA
2225	AAGTCCGCGCTCGCTCCTGTAATA	TATTACAGGAGCGAGCGCGGACTT
2226	GCTGGGTCATTGCTCGAGTAACCA	TGGTTACTCGAGCAATGACCCAGC
2227	TGGAGCGTTCTGGCAATGACCGAC	GTCGGTCATTGCCAGAACGCTCCA
2228	CAAGTCAATTCTTGGCCAATTCGG	CCGAATTGGCCAAGAATTGACTTG
2229	CGTTCATGCAAGGATCCCAGGTTA	TAACCTGGGATCCTTGCATGAACG
2230	ATGCCAATAGAAGCTGGGGATGCT	AGCATCCCCAGCTTCTATTGGCAT
2231	CCTAACTCTCCCTTGAGGCCGTTT	GAACGGCCTCAAGGGAGAGTTAGG
2232	ATCTCGGCGAAGGTTCCAAACATT	AATGTTTGAACCTTCGCCGAGAT
2233	GCGACAGATTACGCTGCGGTTTTT	GAAAACCGCAGCGTAATCTGTGCG
2234	AAGCCCAGACGGCCAACACGTTAC	GTAACGTGTTGGCCGTCTGGGCTT
2235	TCAAGTTCAAATCACATCCCGTGG	CCACGGGATGTGATTTGAACTTGA
2236	GATTGTCGTTCTGTCTGTGAGGCG	CGCCTCACAGACAGAACGACAATC
2237	ACCGAACTATGTTCCGGCATGGCA	TGCCATGCCGGAACATAGTTCGGT
2238	CGTCATCGGGTGTGCAATGCCGTT	AACGGCATTGCACACCCGATGACG
2239	CGGACGGAGTCACGTTTGTGCACT	AGTGCACAAACGTGACTCCGTCCG
2240	TAAACAAGTCGTGTGCCTTTGCCG	CGGCAAAGGCACACGACTTGTTTA
2241	TAATTACTGGCCTGTGGAGCAGGC	GCCTGCTCCACAGGCCAGTAATTA
2242	GGAGCGGCCCGAATGGTGTCTTAA	TAAGAGCACCATTTCGGGCCGCTCC
2243	ACTAAGCAAGGCTTGATGTGCGT	ACGCACATCCAAGCCTTGCTTAGT
2244	GGCAGCTCAGCGGCAGTACGCTAC	GTAGCGTACTGCCGCTGAGCTGCC
2245	GCGAGGCGAATTATCCGCGGATTT	AAATCCGCGGATAATTCGCCTCGC
2246	CATACGACACACCTTGGGGTGCTA	TAGCACCCCAAGGTGTGTCTGATG
2247	TGCTTGGGCTTTAAACCCCGTTTT	AAAACGGGGTTTAAAGCCCAAGCA
2248	CCGTTTGAAAACGCAAATATCGG	CCGATATTTGCGTTTTCCAACCGG
2249	AAACTAGCTAGCCGCACCCGCAAG	CTTGCGGGTGCGGCTAGCTAGTTT
2250	GTTGTTCCACCAGTGATCACGCAG	CTGCGTGATCACTGGTGAACAAC
2251	GCCGCTGACAAGATGATCATCGTT	AACGATGATCATCTTGTGACGGC
2252	CTTTCATAAAGCCAACCGATGCCC	GGGCATCGGTTGGCTTTATGAAAG
2253	CTGACTGCATCTCGAAAGCGGGTG	CACCCGCTTTCGAGATGCAGTCAG
2254	ATTTCTTCGGAGAATCGGCCACGT	ACGTGGCCGATTCTCCGAAGAAAT
2255	CATTTGCGGGCCCTAGCTACTGCGC	GCGCAGTAGCTAGGGCCCGAAATG
2256	CCGATCCCGCACATCCGTATCCTG	CAGGATACGGATGTGCGGGATCGG
2257	TATCACCGGGAGCGTCTTATCGTG	CACGATAAGACGCTCCCGGTGATA
2258	TAGGGCTCGTGCACCGATTAGAGG	CCTCTAATCGGTGCACGAGCCCTA
2259	GCGTGGCACTCGCTTGTCTAGGTA	TACCTAGACAAGCGAGTGCCACGC

A9

Serial No.: 09/940,185

Filed: August 27, 2001

2260	CTCAACGAACTCAAGGGCCGCTAC	GTAGCGGCCCTTGAGTTCGTTGAG
2261	AGCCTGGTATCGACCAATCCTGCA	TGCAGGATTGGTCGATACCAGGCT
2262	TACGCGTTCTAGTTGGCCGGATCC	GGATCCGGCCAACTAGAACGCGTA
2263	TTTATGGGTTTGTGCCTGATGGGT	ACCCATCAGGCACAAACCCATAAA
2264	GGGACCCCTAGCAACGTCACCTTA	TAAGGTGACGTTGCTAGGGGTCCC
2265	CTGCCTCCCCAGGAGTCATTGGAT	ATCCAATGACTCCTGGGGAGGCAG
2266	AACCCCGCAAGACCAGTACCAATC	GATTGGTACTGGTCTTGCGGGGTT
2267	GGTCACATACGCGCTAAAAGCGC	GCGCTTTTATAGCGCGTATGTGACC
2268	AAATGGCTCCGACCAGTTAGGGAC	GTCCCTAACTGGTCGGAGCCATTT
2269	AACGCGGCACGCTTAAAGGTGCAT	ATGCACCTTTAAGCGTGCCGCGTT
2270	GATCGCACGCCGATTAACCTTACA	TGTAAGGTTAATCGGCGTGCGATC
2271	CCTCCTGATTGGGAGTGCGGAATT	AATTCCGCACTCCCAATCAGGAGG
2272	CGGAGGGTAATAGGCTCCTCTGCG	CGCAGAGGAGCCTATTACCCTCCG
2273	ACAAGAACTGGACATTACCGCGGG	CCCGCGGTAATGTCCAGTTCTTGT
2274	TGTCGTCTTAAAGGCCTTTGTGCG	CGCACAAAGGCCTTTAAAGACGACA
2275	GGTGACCATGTGGCGTTTTAGCTT	AAGCTAAAACGCCACATGGTCACC
2276	CACGGTTGCGCACGGTACCAGAAC	GTTCTGGTACCGTGCGCAACCGTG
2277	CCTTTATTGTTTGGTCCCCTGCC	GGGCAGGGGACCAACAATAAAGG
2278	GTGCGCCTGCATTCTACCGTCAAT	ATTGACGGTAGAATGCAGGCGCAC
2279	GTTTACGTTGATGGCTTGCCGCCG	CGGCGGCAAGCCATCAACGTAAAC
2280	CCGTCCGTGGTAGGACGTGAATGT	ACATTCACGTCCTACCACCGACGG
2281	TGATCGCCCCAGAATCCCTGTGCT	AGCACAGGGATTCTGGGGCGATCA
2282	AAGCAGCCAAAATCGGTTGCTTT	AAAGCAACCGATTTTGGCTGCTT
2283	CGACGGGACTTAGTAGCAGGGCCT	AGGCCCTGCTACTAAGTCCCGTCG
2284	CCGATTGCGGAAACGACCAAGTAG	CTACTTGGTCGTTTCGCGAATCGG
2285	CCACCCCAACTCCAATCTTCTCA	TGAGAAAGATTGGAGTTGGGGTGG
2286	GTGCAGTAGACGACTACCGGCGTC	GACGCCGGTAGTCGTCTACTGCAC
2287	TTCGCCCATCGTATCAAGCAATTC	GAATTGCTTGATACGATGGGCGAA
2288	GAATCGCGACTACCCGTCGGGTCA	TGACCCGACGGGTAGTCGCGATTCT
2289	CCAGCACTCGCCATCGGTTATAAT	ATTATAACCGATGGCGAGTGCTGG
2290	CGAACCGTAGAACTCCGGTCGGTG	CACCGACCGGAGTTCTACGGTTCG
2291	GCACCATGACAGAGCCCCAGGATG	CATCCTGGGGCTCTGTCATGGTGC
2292	TGGGCTACCGCAGAATAAGGGTGA	TCACCCTTATTCTGCGGTAGCCCA
2293	TGGCCTGTCTGTCTGAAGGAAACA	TGTTTCCTTCGACACGACAGGCCA
2294	GCCTCACCGATAGCGAGCGTTTGC	GCAAACGCTCGCTATCGGTGAGGC
2295	GTGCGCGCCGGCTAAAACGAGACA	TGTCTCGTTTTAGCCGGCGCGCAC
2296	CCGCAGACGAGTTTCTTGTGACAG	CTGTCACAAGAACTCGTCTGCGG
2297	GTTTCGCAATCGCGTGCTAGGAAGC	GCTTCCTAGCACGCGATTGCGAAC

A9

Serial No.: 09/940,185

Filed: August 27, 2001

2298	TGTTGTACACATGCATCCGGTGAA	TTCACCGGATGCATGTGTACAACA
2299	CACTGAACACGATATAAGGGCGCG	CGCGCCCTTATATCGTGTTCAGTG
2300	CGCGATGGTTCTTAGCAAGACGAT	ATCGTCTTGCTAAGAACCATCGCG
2301	TACACCAAGGAAGAAATGGGGACG	CGTCCCCATTTCTTCCTTGGTGTA
2302	CGTGCCTTGCGTTTTAGGTGCAGC	GCTGCACCTAAAACGCAAGGCACG
2303	GTCGTTTGTCTGGGCATTAACGGC	GCCGTTAATGCCCAGACAAACGAC
2304	CAGGCTCTCGTTCGGTACAAACGT	ACGTTTGTACCGAACGAGAGCCTG
2305	CGGACACTGTTTCACCAGAACCCA	TGGGTTCTGGTGAAACAGTGTCCG
2306	TACCCATGATGCGGAAGAAGCGTA	TACGCTTCTTCCGCATCATGGGTA
2307	CTGTCCTTAAGCGGATGAGAACCG	CGGTTCTCATCCGCTTAAGGACAG
2308	CGGGAGATGAGAACGGTTTTGTGC	GCACAAAACCGTTCTCATCTCCCG
2309	TAGATCGCGACTGTACTCAGGCCG	CGGCCTGAGTACAGTCGCGATCTA
2310	TAAACAGTTCGCGCGACTGTCGT	ACGACAGTCGCGCGAACTGTTTTA
2311	CGAGGAGCTCCACATAAGCCCAAT	ATTGGGCTTATGTGGAGCTCCTCG
2312	TGGCTAGGGATGGGGAATCATCTT	AAGATGATTCCCCATCCCTAGCCA
2313	AGGATTGGGTGCCTGGATGCATTG	CAATGCATCCAGGCACCCAATCCT
2314	TGTATCTACCGGCCTGAAGCAGGT	ACCTGCTTCAGGCCGGTAGATACA
2315	TCCCTACGCGCATGACTCGCTTAC	GTAAGCGAGTCATGCGCGTAGGGA
2316	TGGTCGATCACCTGTGACAGACGC	GCGTCTGTCACAGGTGATCGACCA
2317	TGGGGGTAGTCCATGCATCAATTG	CAATTGATGCATGGACTACCCCCA
2318	CCCTGCCAGGATTACTATTCGGA	TCCGGAATAGTAATCCTGGCAGGG
2319	TCCCGCACGGGGAATTTAAGTAGA	TCTACTTAAATTCCCCGTGCGGGA
2320	GTGATGTGCAGGAACTTCTGTGCG	GCGACAGAAGTTCCTGCACATCAC
2321	ATTTAGGCATGCATGCGCTTCTCA	TGAGAAGCGCATGCATGCCTAAAT
2322	TTCGGCGCTAGTGGACGCCGTCAA	TTGACGGCGTCCACTAGCGCCGAA
2323	GAGCTTCATCTCATCAGTTCCGCG	CGCGGAACTGATGAGATGAAGCTC
2324	GACAACTCCACTGCTCCAATCGCA	TGCGATTGGAGCAGTGGAGTTGTC
2325	GGCCAAGGATGGACCTTACGATGG	CCATCGTAAGGTCCATCCTTGGCC
2326	GGTTCCGGAATTTGTCACCGCTTC	GAAGCGGTGACAAATTCCGGAACC
2327	GCGCTGGATAGTCTGCGAGAAGCC	GGCTTCTCGCAGACTATCCAGCGC
2328	TGAGTCCAGTGCTGCCACCATGAA	TTCATGGTGGCAGCACTGGACTCA
2329	TTGAATTGGGTGTGCGAGCGTTCT	AGAACGCTCCGACACCCAATTCAA
2330	CGGCGGGCAGACAATGCTTTGAAC	GTTCAAAGCATTGTCTGCCCGCCG
2331	GGGTCTGTCAAAGAGGGTGTCTGG	CCAGACACCCTCTTTGACAGACCC
2332	CTTTGTGCAAGACGAAGCACCTT	AAGGGTGCTTCGTCTTGACAAAG
2333	ATCGAATTCCGAGGAGGTCTCCAT	ATGGAGACCTCCTCGGAATTCGAT
2334	TCCGACCCTCAGAGTCGACTCATT	AATGAGTCGACTCTGAGGGTCGGA
2335	ATCAACGGCCACCTCCTCGCCGAG	CTCGGCGAGGAGGTGGCCGTTGAT

A9

Serial No.: 09/940,185
 Filed: August 27, 2001

A9

2336	AGCCACGGAATAATTCCGTCCACC	GGTGGACGGAATTATTCCGTGGCT
2337	GATCGCTTGCGTATCGCAAAGACT	AGTCTTTGCGATACGCAAGCGATC
2338	TCCACGCCTTACCATCAACTGCAA	TTGCAGTTGATGGTAAGGCGTGGA
2339	GCCAAGCGATAGGCCAGAACTCAG	CTGAGTTCTGGCCTATCGCTTGGC
2340	AGCGTGTGGGTCAATTTAGCACGA	TCGTGCTAAAATGACCCACACGCT
2341	GTTATGCGCGGCTTACGAGTTCGA	TGAACTCGTAAGCCGCGCATAAC
2342	TCTGTCCACGTAACCTGCCTGCAG	CTGCAGGCAAGTTACGTGGACAGA
2343	TCGGCAGCCAATGATCATACCTCT	AGAGGTATGATCATTGGCTGCCGA
2344	TAAGCCCGATCCGGTCCTGTGTTT	AAACACAGGACCGGATCGGGCTTA
2345	ACATGGCAGACTAACAGGCCTCGC	GCGAGGCCTGTAGTCTGCCATGT
2346	CATGGCTGCACTCTAAGTCGAACG	CGTTCGACTTAGAGTGCAGCCATG
2347	TCTTCAACCCACGCGGAACGATTG	CAATCGTTCCGCGTGGGTTGAAGA
2348	CTCGTGTCTCCAGAGGATTGTCCC	GGGACAATCCTCTGGAGACACGAG
2349	TGAAGGCATCAACCCAGAGGATTT	AAATCCTCTGGGTTGATGCCTTCA
2350	ACAGCTCGAAGGCAGCCACATTGG	CCAATGTGGCTGCCTTCGAGCTGT
2351	ACAACGAGTACCGCGACAGAAGGG	CCCTTCTGTCGCGGTACTCGTTGT
2352	ATAACCGAAAAACCAGCCTGCGAT	ATCGCAGGCTGGTTTTTCGGTTAT
2353	ACAACCTCAGCACTTTCGACGTCCA	TGGACGTCGAAAGTGCTGAGTTGT
2354	CGGGTTACTGGGTATCACCAATGC	GCATTGGTGATACCCAGTAACCCG
2355	CATCGGTTATCGCTGCACGCGCGT	ACGCGCGTGCAGCGATAACCGATG
2356	GAAGGAATCCCGGATAGTCCGTGG	CCACGGACTATCCGGGATTCTTC
2357	GCATGGTCTCAGCCAAAGAACCTG	CAGGTTCTTTGGCTGAGACCATGC
2358	AGCCTGCGACGTTTCCCGACAGAC	GTCTGTCGGGAAACGTCGCAGGCT
2359	AAGAAAGGCGCACGGGATCGATAT	ATATCGATCCCGTGCGCCTTTCTT
2360	TGTCGCGAAGCCAACTTTCAGTAA	TTACTGAAAGTTGGCTTCGCGACA
2361	GCGGCATGCAAGGTAGGTCTGGAT	ATCCAGACCTACCTTGCATGCCGC
2362	GGTGGCCATCTCCTCGAATTGCAT	ATGCAATTCGAGGAGATGGCCACC
2363	GCGTGCATAAGTTGCACATTGTGC	GCACAATGTGCAACTTATGCACGC
2364	TTGAGGTAGCGTTTTTCGCGCATAT	ATATGCGCGAAAACGCTACCTCAA
2365	ATCCCACTTGTGAGAGGGCGCATT	AATGCGCCCTCTCACAAGTGGGAT
2366	CGGTCAGCGAGCAGACATCAACCT	AGGTTGATGTCTGCTCGCTGACCG
2367	GCGTATCTTCGGGTCAACACTTG	CAAGTGTTGACCCGAAGATACGC
2368	ATGCCATTGAACTCGCACTTTGCG	CGCAAAGTGCGAGTTCAATGGCAT
2369	CGATTCCCATCATAATGTGGGTCC	GGACCCACATTATGATGGGAATCG
2370	CAATTTGGATAATCCAGCCACGCC	GGCGTGGCTGGATTATCCAAATTG
2371	CGGCTTACCCTATGATTCCGTGCA	TGCACGGAATCATAGGTAAGCCG
2372	GGTGGACCATGCGCTGTGGTATGA	TCATACCACAGCGCATGGTCCACC
2373	TATTTGTGGAAGATCGCAAGCGCC	GGCGCTTGCGATCTTCGACAAATA

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2374	GTCAGTGGGTTTTGAGAGCCCGCA	TGCGGGCTCTCAAAACCCACTGAC
2375	AGGGGGTCGGGAAATCTGACAAAA	TTTTGTCAGATTTCCCGACCCCCT
2376	TGCTTGCTATCCGAAAAAAGCAGG	CCTGCTTTTTTCGGATAGCAAGCA
2377	TTATCGGATCAAATTCGGCTTCGG	CCGAAGCCGAATTTGATCCGATAA
2378	TGCAGCAACGAGTTACCCGGACTT	AAGTCCGGGTAACCTCGTTGCTGCA
2379	TATACATGTCCGGAGGGGCACCCA	TGGGTGCCCCCTCCGGACATGTATA
2380	TGCAAAACCGGAGGATGAACCCTT	AAGGGTTCATCCTCCGGTTTTGCA
2381	TCGGTCTAATGTCCACGCAGACAC	GTGTCTGCGTGGACATTAGACCGA
2382	ATGTGTTTGCCACGCGCTCCTATT	AATAGGAGCGCGTGGCAAACACAT
2383	TGGCGAGGCACGGCTCTAATTCGG	CCGAATTAGAGCCGTGCCTCGCCA
2384	GCGACGACCCGAGCGACTTTTACA	TGTAAAAGTCGCTCGGGTCGTGCG
2385	CTCAGAGAGTCTATCCGGCGCCCT	AGGGCGCCGGATAGACTCTCTGAG
2386	GGAACATCTCCTGGGTCCCTCAGA	TCTGAGGGACCCAGGAGATGTTCC
2387	GCAACGCAGGGAAGTACTTAGCGA	TCGCTAAGTACTTCCCTGCGTTGC
2388	TGACTTGGGCGGACAAAGAAACGC	GCGTTTCTTTGTCCGCCCAAGTCA
2389	AGATCATCGGGACGCTTCATGCTA	TAGCATGAAGCGTCCCGATGATCT
2390	CCCTTCTGACCGCTAAGGCCATAA	TTATGGCCTTAGCGGTCAGAAAGGG
2391	CGTGAGCCGTGGGGTGTCTCTGTA	TACAGAGACACCCCACGGCTCACG
2392	TACCTTGGTCGTCTCCGCTTTTGT	ACAAAAGCGGAGACGACCAAGGTA
2393	TCGCCGCAAAATGCTACGTGAAAA	TTTTCACGTAGCATTTTGCGGCGA
2394	GAGTGACCTAATGGCTGCCCGACT	AGTCGGGCAGCCATTAGGTCACCTC
2395	AAAGGAACTTGGCCAACCCTATGG	CCATAGGGTTGGCCAAGTTCCTTT
2396	TGTTTTCGCACTCCACCTAATCGC	GCGATTAGGTGGAGTGCGAAAACA
2397	CAATGGGTTTCATAAGGGCAGGCA	TGCCTGCCCTTATGAAACCCATTG
2398	GCCTAACACACAAGGGTCCCTCTG	CAGAGGGACCCTTGTGTGTTAGGC
2399	CGTCATGCGGTCCGAGGATCGATC	GATCGATCCTCGGACCGCATGACG
2400	CCACACGGGCACGGAGTAATATCT	AGATATTACTCCGTGCCCGTGTGG
2401	CATCAGACATAGGTCGCGTGCCGA	TCGGCACGCGACCTATGTCTGATG
2402	AGATGAAACCAAGGGAGGACGCAG	CTGCGTCCTCCCTTGGTTTCATCT
2403	GGCTACCCATAGGCTCAGCAGCAC	GTGCTGCTGAGCCTATGGGTAGCC
2404	GGCTTGTGAGGGTGTGTTCTCGAC	GTCGAGAACACACCCTCACAAGCC
2405	TGTGTTACGGCGAATGCAACAGTC	GACTGTTGCATTGCGCGTAACACA
2406	CGATAACAGGTGCGCGCGTTACTA	TAGTAACGGCGCGACCTGTTATCG
2407	TGATAAAGTGAGGCTCCAGCGCGA	TCGCGCTGGAGCCTCACTTTATCA
2408	AATTGTGCACGGATCTGCACGGCG	CGCCGTGCAGATCCGTGCACAATT
2410	GCAATGTACTGTCACCAAGTGCGA	TCGCCACTGGTGACAGTACATTGC
2411	GGCATATCGGTAAACACTTGGTCGG	CCGACCAAGTGTTACCGATATGCC
2412	GGGTCTCAAACCAGCGTGGCCGCT	AGCGGCCACGCTGGTTTGAGACCC

Serial No.: 09/940,185
Filed: August 27, 2001

A9

2413	GTCTCCGGGACCATTGAGCTGGAG	CTCCAGCTCAATGGTCCCGGAGAC
2414	GGCCTTCGGCATTGAGACGGGTTG	CAACCCGTCTGAATGCCGAAGGCC
2415	CGTGATAGGCCACAGCGCTCAATT	AATTGAGCGCTGTGGCCTATCACG
2416	GGCAGGCCCCGCGAGGATGATTAAC	GTTAATCATCCTCGCGGGCCTGCC
2417	CGGGTATGGTTGATAACAGCGTGG	CCACGCTGTTATCAACCATAACCCG
2418	ACGACGTCTCTGGGACCGTATTGT	ACAATACGGTCCCAAGGACGTCTG
2419	CTGATATCGAGCCTGAGCCTTTTCG	CGAAAGGCTCAGGCTCGATATCAG
2420	TCCCATTGGCCTGTATGCTGGCCT	AGGCCAGCATACAGGCCAATGGGA
2421	GTGTCGTCGATTGTTTCATCGACG	CGTCGATGAAACAATCGACGACAC
2422	CGAAAGCCAGTAGCCGATTGCGTG	CACGCAATCGGCTACTGGCTTTTCG
2423	GGTTCGGCTTATTCCACTGCGACA	TGTCGCAGTGGAATAAGCCGAACC
2424	AGCGAGGGCTAACTTTTTAACGCG	CGCGTTAAAAAGTTAGCCCTCGCT
2425	CGGCGCTGATGACGGGACTCGATT	AATCGAGTCCCGTCATCAGCGCCG
2426	TCACAGTGCTCGGCGTAAGGACTA	TAGTCCTTACGCCGAGCACTGTGA
2427	CCCATTACGAGCACACACCATGGC	GCCATGGTGTGTGCTCGTAATGGG
2428	GGCCGCTAATCTTTACGCATCACG	CGTGATGCGTAAAGATTAGCGGCC
2429	ACGGCTTCCTAGTGTCCAGCCCTT	AAGGGCTGGACACTAGGAAGCCGT
2430	CTGTCAGGTCCTACCCAATGGCTC	GAGCCATTGGGTAGGACCTGACAG
2431	CACAGCCCATCCCACTGAACTGCT	AGCAGTTCAGTGGGATGGGCTGTG
2432	ACAAACGATACACGCAACGCTGTG	CACAGCGTTGCGTGTATCGTTTGT
2433	TGGCGGCCAGCTAGCAGGCGAAGT	ACTTCGCCTGCTAGCTGGCCGCCA
2434	ATCTCGAAACGATGCGTGCCTAAA	TTTAGGCACGCATCGTTTCGAGAT
2435	ATCTCGAGAACAGCGTGCGTGCGG	CCGCACGCACGCTGTTCTCGAGAT
2436	GAAGAAATCCGCCGACATCTACGG	CCGTAGATGTCCGGCGGATTTCTTC
2437	GCGGAGCAACCTTGGCTGTTTCTA	TAGAAACAGCCAAGGTTGCTCCGC
2438	CGCGTTCCGAAGACTTGTTGTTTG	CAAACAACAAGTCTTCGGAACGCG
2439	TGACCTGAAGCCCATCCATAAGCA	TGCTTATGGATGGGCTTCAGGTCA
2440	TGGTATTCATTCCGGATAAGCGGG	CCCGCTTATCCGGAATGAATACCA
2441	GCGTTGCGGGTCATTGATGCAAAC	GTTTGCATCAATGACCCGCAACGC
2442	ACCGCTTTCTGTGTAGAGCCCTGA	TCAGGGCTCTACACAGAAAGCGGT
2443	CAAATAGACAATCGCAGCTTCGGG	CCCGAAGCTGCGATTGTCTATTTG
2444	TGTCCTGACAAATCAAGGTGCAGG	CCTGCACCTTGATTGTGTCAGGACA
2445	AAATTGCACTCGCGGAGATTTCTT	AGGAAATCTCCGCGAGTGCAATTT
2446	TGACGCCCATTCTATATGGTGCA	TGCACCATATAGAAATGGGCGTCA
2447	TGTTCCGACAGGGCACTGCTAGAC	GTCTAGCAGTGCCCTGTGCGGAACA
2448	TCGCTGGCTTGGGAAGGCCTTCGT	ACGAAGGCCTTCCCAAGCCAGCGA
2449	GTGCACCTCCGTTGGCGTAGAATG	CATTCTACGCCAACGGAGGTGCAC
2450	CTCATTTGGGACCGATCGGGTTGC	GCAACCCGATCGGTCCCAATGAG

Serial No.: 09/940,185

Filed: August 27, 2001

2451	GCCAGTGTCTGTCAATGGATGGGA	TCCCATCCATTGACAGACACTGGC
2452	TTGCCCCGGCAGGTTCTGTGTAATG	CATTACACAGAACCTGCCGGGCAA
2453	ACCCGCGAACCGAGACGCACTTCT	AGAAGTGCCTCTCGGTTGCGGGT
2454	TCCGTGCGATTGGTCAAGGTTGAT	ATCAACCTTGACCAATCGCACGGA
2455	AGGGCGTCTCGGTTGAACCTCGGT	ACCGAGGTTCAACCGAGACGCCCT
2456	TGACCGTTCAAAGAGCAAGCCAAC	GTTGGCTTGCTCTTTGAACGGTCA
2457	ACACTCACCTGCTGTCCCTGCTGA	TCAGCAGGGACAGCAGGTGAGTGT
2458	GCGTTTAACTCCTTGGGTGGTGGT	ACCACCACCCAAGGAGTTAAACGC
2459	CGCTGCGCAGGTAACCTCTCCGCA	TGCGGAGAGTTACCTGCGCAGGCG
2460	AATCGAATTTCCCAGCGGCTGTTT	AAACAGCCGCTGGGAAATTCGATT
2461	AAGCAGGTGGGATCCTGGGGATCA	TGATCCCCAGGATCCCACCTGCTT
2462	AATCCCAGACTCGCTCTTCGTGCT	AGCACGAAGAGCGAGTCTGGGATT
2463	ACGGTTATAAGGGCCGGCTGCGAC	GTCGCAGCCGGCCCTTATAACCGT
2464	TACGAGAGCGGGCTTAGACGTCGC	GCGACGTCTAAGCCCGCTCTCGTA
2465	GCGATTTTGACCCACGGTTATCGA	TCGATAACCGTGGGTCAAAATCGC
2466	AGCTGTATAATTTGGATGGCGCGA	TCGCGCCATCCAAATTATACAGCT
2467	TCCGCGAGTCTTAGCCGATTGAAC	GTTCAATCGGCTAAGACTCGCGGA
2468	GGCATCAGCTCCGTAAGCCGATAG	CTATCGGCTTACGGAGCTGATGCC
2469	TGTTATTGGCAGTTGAGCGACAG	CTGTGCTCGAACTGCCAATAACA
2470	GCGAGCCTTTTTGCTTGGGAAGAG	CTCTTCCAAGCAAAAAGGCTCGC
2471	AGAAGAAAAGGTCAGCGTCGACGA	TCGTGACGCTGACCTTTTCTTCT
2472	CGGGTCGACCCTTGAAGCATAACC	GGTTATGCTTCAAGGGTCGACCCG
2473	CTCGGTTTTACAAACTTACCGCG	CGCGGTAAGTTTGTGAAAACCGAG
2474	GCAGTCCTATCCGGAGCCTGACAA	TTGTCAGGCTCCGGATAGGACTGC
2475	AAGGTGCGCTATTTGTTGTCGGTC	GACCGACAACAAATAGCGCACCTT
2476	AGTGGAATCCATGCCGACACCTGA	TCAGGTGTCGGCATGGATTCCACT
2477	TACAGGCGTAATTCCTGCGAGGGA	TCCCTCGCAGGAATTACGCCTGTA
2478	CCGAAGTGCGAGAAGCACGTTGTT	AACAACGTGCTTCTCGCACTTCGG
2479	AAGGACTGGTATGGCCGGAGCTTT	AAAGCTCCGGCCATACCAGTCCTT
2480	GGACACCGCCAACCTCATAGTTGC	GCAACTATGAGGTTGGCGGTGTCC
2481	AATGGTGTTGCGCTGGACTACCAC	GTGGTAGTCCAGGCGAACACCATT
2482	TAGGAAAGCGTACACGGGAATCCG	CGGATTCCCGTGACGCTTTCCTA
2483	TCTCACCCCAATGATGAGGACGTC	GACGTCCTCATCATTGGGGTGAGA
2484	CGTGTCGCTGTGACACTGTCCATG	CATGGACAGTGTACACGGACACG
2485	TCCAGGCTGTTGCGGATACGGTAG	CTACCGTATCCGCAACAGCCTGGA
2486	GTAGGCAAAATGGTCGCGATCAAT	ATTGATCGCGACCATTTTGCCTAC
2487	ATCTCCGTGGACCCGATTGTGACA	TGTCACAATCGGGTCCACGGAGAT
2488	GAATATGCCGTCAACGCTATGGGC	GCCCATAGCGTTGACGGCATATTC

119

Serial No.: 09/940,185
 Filed: August 27, 2001

A9

2489	TTCCGGAAGCGTTTGGTAACTTTG	CAAAGTTACCAAACGCTTCCGGAA
2490	TTCGATAGGAATACCAGGGCCTGG	CCAGGCCCTGGTATTCCTATCGAA
2491	GGCCATTTGAGGAGGATTATGCAA	TTGCATAATCCTCCTCAAATGGCC
2492	ACCTTCTGACCTGGACTTTTGGCG	CGCCAAAAGTCCAGGTCAGAAGGT
2493	GACCAATCCGCAGTTGAGCAACAG	CTGTTGCTCAACTGCGGATTGGTC
2494	TCGGCCACTCACCATGAGTGTAGG	CCTACACTCATGGTGAGTGGCCGA
2495	AGCGCTCACATGTTGAAAACGGG	CCCGTTTTCGAACATGTGAGCGCT
2496	TAACGCAAAGGCGCGATCCTCGCT	AGCGAGGATCGCGCCTTTGCGTTA
2497	TGGGTGGGCCAAATATTACTGCAA	TTGCAGTAATATTTGGCCCACCCA
2498	GTCCTCGAAAGGGGCATCCAAACA	TGTTTGGATGCCCTTTTCGAGGAC
2499	CCCATCTGGTGGGAGGCGTTATCA	TGATAACGCCTCCCACCAGATGGG
2500	GTGCGCGGTCTGCAAACCTCGCCAT	ATGGCGAGTTTGCAGACCGCGCAC
2501	TGTGTTGCCAACCTAGGTCATCA	TGATGACCTAGGGTTGGCAACACA
2502	CTGATGCTGTTCTCGTCGGTTGAC	GTCAACCGACGAGAACAGCATCAG
2503	AAGCTGCAAAGGTGAGCGTGGCA	TGCCACGCTCACCTTTTGCAGCTT
2504	TCTGACGCGTGCTTGGGAGTCTAT	ATAGACTCCCAAGCACGCGTCAGA
2505	GAATTACTTGAGGGCGCCGTGCAA	TTGCACGGCGCCTCCAAGTAATTC
2506	GATTCTTCCCGACCTAGGTTGGCC	GGCCAACCTAGGTCGGAAGAATC
2507	CGCAGCGTATCCCATGTTGCTTGA	TCAAGCAACATGGGATACGCTGCG
2508	GAGATGGAATTGTTGCCCCAAAGA	TCTTTGGGCGAACAATTCCATCTC
2509	GATGCCTGGATCGGTCTAGCGTCA	TGACGCTAGACCGATCCAGGCATC
2510	GCAGCGACTGCTAAGCTATCTCGG	CCGAGATAGCTTAGCAGTCGCTGC
2511	AGGGCTAATTTACATCGCCTTGCC	GGCAAGGCGATGTAAATTAGCCCT
2512	AAGTGACATCCTCACGAAGCGAT	ATCGCTTCGTGAGGATGTGCACTT
2513	TCAGGCAGCCGTAATTAATGCGC	GCGCATTTAATTACGGCTGCCTGA
2514	CCACTGGGGAAATCGCACTGTTGG	CCAACAGTGCGATTTCGCCAGTGG
2515	TTGTCCAAAGCCACCTACGACAGA	TCTGTCGTAGGTGGCTTTGGACAA
2516	TGGGCGGAATAGATTGGGTGTCTT	AAGACACCCAATCTATTCCGCCCA
2517	TAGAATTCGCCTCTTCTAGCCGCC	GGCGGCTAGAAGAGGCGAATTCTA
2518	CATTACTTCCTGCAGATGCGATGC	GCATCGCATCTGCAGGAAGTAATG
2519	GGAAATGCTAGCTGGGGTAATCGC	GCGATTACCCAGCTAGCATTTC
2520	GCCGCCACTTGCGAATCTACATCT	AGATGTAGATTGCGAAGTGCGGCG
2521	ACAATAGCGGACAGCTCGCCAGAT	ATCTGGCGAGCTGTCCGCTATTGT
2522	AGTTAGGCTCTCGGTGCGGTCCAT	ATGGACCGCACCGAGAGCCTAACT
2523	TGGGCCTGAGAAGCGGTTAATAGG	CCTATTAACCGCTTCTCAGGCCCA
2524	ACGCTCTGAGCGACGCCTATCGTA	TACGATAGGCGTCGCTCAGAGCGT
2525	CCTGGTGATCGTGTCCAGACTCA	TGAGTCTGGGACACGATCACCAGG
2526	GCGTGTCCATTGCTTGAGGTTTC	GAAACCTCAAGCGAATGGACACGC

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2527	ATCCTGAACGGCGATGACCACCAC	GTGGTGGTCATCGCCGTT CAGGAT
2528	TTACGTTTCTCACCGATCAACGCC	GGCGTTGATCGGTGAGAAACGTAA
2529	GCCGTCTTGAGTGGCTAAAAGGCA	TGCCTTTTAGCCACTCAAGACGGC
2530	ATCTACGATGCGGCTCGAAGTGTT	AACACTTCGAGCCGCATCGTAGAT
2531	AACCAAGACTCGTCCCCAAACGAA	TTCGTTTGGGGACGAGTCTTGTT
2532	AACTGCGGTGGTGGAGGCAGGTGC	GCACCTGCCTCCACCACCGCAGTT
2534	TGCGATCTTCTCCACCTACAGCGC	GCGCTGTAGGTGGAGAAGATCGCA
2535	AGGCGCTTAGAACCCTGAAGGCAG	CTGCCTTCACGGTTCTAAGCGCCT
2536	TGGAAAATTTTGGGAAACGCTGGA	TCCAGCGTTTCCCAAATTTTCCA
2537	CCAGCGCCGCACCTTCTCCAATAG	CTATTGGAGAAGGTGCGGCGCTGG
2538	TAGACGGCTGGCGAATCTTACGGT	ACCGTAAGATTGCGCAGCCGTCTA
2539	TACCATACAAGAGAACGAGCCGCA	TGCGGCTCGTTCTCTTGATGGTA
2540	GTAGCCGAGAGCAATTTTACCGC	GCGGTGAAAATTGCTCTCGGCTAC
2541	GCAAACCTCCCTGCCCTTTAGCCT	AGGCTAAAGGGCAGGGGAGTTTGC
2542	ATCCCGCTGATAACCGCCAGGATA	TATCCTGGCGGTTATCAGCGGGAT
2543	AGTCTCAGTTCGGCGCAACGGTAG	CTACCGTTGCGCCGAACGAGACT
2544	AACCTACAGTCGCCGCAATGCATT	AATGCATTGCGGCGACTGTAGGTT
2545	ATACACGTTTCAGCCGGCAACAAT	ATTGTTGCCGGCTGAAACGTGTAT
2546	ACGACGGGACGTGCCCTCGTTGAT	ATCAACGAGGGCACGTCCCGTCGT
2547	AAGTCCAAACTCGAATGGGGCAGT	ACTGCCCCATTGAGTTTGGACTT
2548	GATTTATTGGCGCGGTAACGACCT	AGGTCGTTACCGCGCCAATAAATC
2549	TGTTTTTCAGAGGCTACCCTGCCAT	ATGGCAGGGTAGCCTCTGAAACA
2550	ACGGTCTCAGGGAAATGCGATCTC	GAGATCGCATTTCCCTGAGACCGT
2551	GACTTGAAACCGCCTATGCCACA	TGTGGGCATAGGCGGTTTCAAGTC
2552	CGATCGGTTGTGTGCTGTCTTACC	GGTAAGACAGCACACAACCGATCG
2553	AGTAGCACAATGCCTCATTTCCGC	GCGGAAATGAGGCATTGTGCTACT
2554	CTCGCTATCTACGCGTCTCCGAAA	TTTCGGAGACGCGTAGATAGCGAG
2555	AGCCCGTTACGGCATCTAGGATTC	GAATCCTAGATGCCGTAACGGGCT
2556	TCGCGATGGCGAGAGTTCAGAATA	TATTCTGAACTCTCGCCATCGCGA
2557	TTACAGGATTCCAAAACCCGCAAA	TTTGCGGGTTTTTGAATCCTGTAA
2558	CGGTACCAACGCGCGGGCATATGA	TCATATGCCCGCGCGTTGGTACCG
2559	TGCCAGTATTATCCGTGCCAGCCG	CGGCTGGCACGGATAATACTGGCA
2560	ATTTACAGACCTCGGGACAACCTGG	CCAGGTTGTCCCGAGGTCTGAAAT
2561	GAAGTGCGCGTAACCTTAGGGAGCC	GGCTCCCTAAGTTACGCGCACTTC
2562	TTGGCCAGGTCATCACTCTGCCAT	ATGGCAGAGTGATGACCTGGCCAA
2563	ATCGGCCGGTATTAGCTGCCCTCC	GGAGGGCAGCTAATACCGGCCGAT
2564	CGCAGGTAAGGCCGAGCAATGTTT	AAACATTGCTCGGCCTTACCTGCG
2565	TTGGGAACGTGCTAGGCGGCCCTC	GAGGGCCGCCTAGCACGTTCCCAA

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2567	CATCTCGGCACACTGGTGCTGTAT	ATACAGCACCAGTGTGCCGAGATG
2568	ACGCGTAAATCAACGACGTGGTCG	CGACCACGTCGTTGATTTACGCGT
2569	CGTAGGTGGTAAATGTTGGCCCAG	CTGGGCCAACATTTACCACTACG
2571	TTCGAGCCAGAATAAAACGGTTGG	CCAACCGTTTTATTCTGGCTCGAA
2572	AGAGATATTCGGCCTCGGTCGAGA	TCTCGACCGAGGCCGAATATCTCT
2573	CGACAAAGTTTCTCGCGAGCAACT	AGTTGCTCGCGAGAACTTTGTCTG
2574	ATTGCCGCGTCTCGTATCAAAAGA	TCTTTTGATACGAGACGCGGCAAT
2575	CGGAGAATGGATGCAGGTTCTTCG	CGAAGAACCTGCATCCATTCTCCG
2576	TATAATCATTTGCGACTCGCCCCA	TGGGGCGAGTCGCAAATGATTATA
2577	AATTTTCCCCGATTTGAAGAAGCG	CGCTTCTTCAAATCGGGGAAAATT
2578	TCGCATACTTCGTCGGCGAGTATT	AATACTCGCCGACGAAGTATGCGA
2579	CGTGAGCCGTTCTCATCCAAGCGG	CCGCTTGGATGAGAACGGCTCACG
2580	GCAGAATCGAATTGGGGTGGGTTT	AAACCCACCCCAATTTCGATTCTGC
2581	CTCTCGGTTTCTCAACCGAGCTCG	CGAGCTCGGTTGAGAAACCGAGAG
2582	GACCAGTTAGTGCAATGGTTGGCG	CGCCAACCATTCGACTAACTGGTC
2583	TTCTCGCACAGCTAGTCAGCCGAT	ATCGGCTGACTAGCTGTGCGAGAA
2584	CCAAGTCTTGCGTGAGCGATCCTG	CAGGATCGCTCACGCAAGACTTGG
2585	GCGAAAGTGGCTCGTATTTCTCCA	TGGAGAAATACGAGCCACTTTTCGC
2586	CCTCGGGACTGTCCGACTGAAAAA	TTTTTCAGTCGGACAGTCCCGAGG
2587	AGGCGAGTGACGGCTCATCCATG	CATGGATGAGCCGTACACTCGCCT
2588	GCGGCTCTGCCTACGATATTCACA	TGTGAATATCGTAGGCAGAGCCGC
2589	TGCACCTGTCTGTAGATTTGCGGT	ACCGCAAATCTACAGACAGGTGCA
2590	CATAAAGCACGGACGCGACTTGAT	ATCAAGTCGCGTCCGTGCTTTATG
2591	CCCTCAACGTAGGGCGTGACTTTC	GAAAGTCACGCCCTACGTTGAGGG
2592	GGGTCATCGTGCAATTATGCCGTA	TACGGCATAACTGCACGATGACCC
2593	CCCGGATAATCCTTTGTCCAGCCG	CGGCTGGACAAAGGATTATCCGGG
2594	TCCGATAAGCGAACTCACATGGGT	ACCCATGTGAGTTCGCTTATCGGA
2595	CCTGCTGGTTCGGTCGTAAGCGAA	TTCGCTTACGACCGAACCAGCAGG
2596	GAGGCACCAATCGGTCTGAAAATG	CATTTTCAGACCGATTGGTGCCTC
2597	TACGAAAATGGTTGCGCCGGGTCT	AGACCCGGCGCAACCATTTTCGTA
2599	AATTGCCGGAAGCAGTCAGAAATCG	CGATTCTGACTGCTTCCGGCAATT
2600	CCGAATCAGCCGTATTTGCTGGAA	TTCCAGCAAATACGGCTGATTCCG
2601	CCCGCTTATCTGTACTCGATCGCA	TGCGATCGAGTACAGATAAGCGGG
2602	TTTTGGGGATCCCTATTAGGCGCA	TGCGCCTAATAGGGATCCCCAAA
2603	AGTGACAGCGCTCACCACGGTCCC	GGGACCGTGGTGAGCGCTGTCACT
2604	CCATGAGTGTTTCGGGACATCGTA	TACGATGTCCCGAAACACTCATGG
2605	GCCACATTCTGCTACCTCCGTGTT	AACACGGAGGTAGCAGAATGTGGC
2606	TCCTGTGCTTTGTGACGTGCTAGG	CCTAGCACGTCACAAAGCACAGGA

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2607	GACCGCATATACACCTGATGGGCC	GGCCCATCAGGTGTATATGCGGTC
2608	GTAGGCCCGTCGTTAACCATCTCA	TGAGATGGTTAACGACGGGCCTAC
2609	CGGCTCGCGAAATGGAGTTTAGCG	CGCTAAACTCCATTTGCGGAGCCG
2610	GCTGATCGGCTTTTCACCGCTATA	TATAGCGGTGAAAAGCCGATCAGC
2611	TATCAAATCGTTGGCACGCGACTA	TAGTCGCGTGCCAACGATTTGATA
2612	TTGGCGAGGATCCCTAGGCGTACT	AGTACGCCTAGGGATCCTCGCCAA
2613	AAGTCCTGAGGCCGTTGCGTTTCT	AGAAACCGAACGGCCTCAGGACTT
2614	ACTCCGGACATCTCGGCCAGAGAT	ATCTCTGGCCGAGATGTCCGGAGT
2615	CCAAGGGGAACACAGGATCGTAGA	TCTACGATCCTGTGTTCCCCTTGG
2616	GTGGCCTAAATCCGCCTTCTCAAC	GTTGAGAAGGCGGATTTAGGCCAC
2617	CACTCCGTCTCGTCCATTAATGCG	CGCATTAAATGGACGAGACGGAGTG
2618	TCAAGAACCCAGTGCCGGTCAGCA	TGCTGACCGGCACTGGGTTCTTGA
2619	GAATCAATTTTCCAGGGACGGGAC	GTCCCGTCCCTGGAAAATTGATTC
2621	ATCGGTGTGCTGGAGCGCCAGAGT	ACTCTGGCGCTCCAGCACACCGAT
2622	GCCTCTCCTATGACGATGACCCAC	GTGGGTCATCGTCATAGGAGAGGC
2623	TGGGCGCGCTTTTAAGACTACATC	GATGTAGTCTTAAAAGCGCGCCCA
2624	CGTTGGGTACCGTTCTATCAACCG	CGGTTGATAGAACGGTACCCAACG
2625	GCAGTGAGCTGGGTTCAATGCTTC	GAAGCATTGAACCCAGCTCACTGC
2626	CATCATCCACACAGGCAGGTGTGT	ACACACCTGCCTGTGTGGATGATG
2627	AGACAAAGGTCCCCATTGCGAAAT	ATTCGCAATGGGGACCTTTGTCT
2628	ATACTCGTCGACGAGAAGCGGAAA	TTTCCGCTTCTCGTCGACGAGTAT
2629	GCAGAATGTGTTGTCTTCGACGCC	GGCTGCGAAGACAACACATTCTGC
2630	CACCATGCCTTCATCTTGGCCTAG	CTAGGCCAAGATGAAGGCATGGTG
2631	ACTCTTCAACGCCAGGTTAAGCCA	TGGCTTAACCTGGCGTTGAAGAGT
2632	GCGACCTGCGGCGTGTGTATTCTC	GAGAATACACACGCCGCGAGGTGCG
2633	TCGGTGTATGCACCCCTTTCTCCAT	ATGGAGAAAGGGTGCATACACCGA
2634	ACCGTCGAATCTTGCGGCCAATGT	ACATTGGCCGCAAGATTGACGGT
2635	TAATGCATGCTCCCGGCTCACGTT	AACGTGAGCCGGGAGCATGCATTA
2636	TCTGTACACACCACGTCGTGCACA	TGTGCACGACGTGGTGTGTACAGA
2637	CATGGGGTTGTCAGACGACACCTA	TAGGTGTCGTCTGACAACCCCATG
2638	AATCTGATGCTCGCTGTAGGACGG	CCGTCTACAGCGAGCATCAGATT
2639	TCGAAACCGCGGGAAAGGGTAAAA	TTTTACCCTTTCCCGCGGTTTCGA
2641	TGGGGGACGGGCGTCTAATCCTCC	GGAGGATTAGACGCCCGTCCCCCA
2642	AGGCATGCACCCATGCTGCCAGAG	CTCTGGCAGCATGGGTGCATGCCT
2643	TCCCAATGGCCTGTCAAGCATAAA	TTTATGCTTGACAGGCCATTGGGA
2644	GAACCTGAGCCTTTGCTAGCACGA	TCGTGCTAGCAAAGGCTCAGGTTC
2645	CGAATTGATAGCGTTACGGGCGAA	TTGCCCCGTAAACGCTATCAATTCG
2646	TTGCACGCGCGCGAACGACTATTC	GAATAGTCGTTGCGCGCGGTGCAA

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2647	TGCGGTGAAGCAGTCCAAGGTCAG	CTGACCTTGGACTGCTTCACCGCA
2648	TGAGGACCATCCAATGGATCGGTT	AACCGATCCATTGGATGGTCCTCA
2649	TCGGTGATTGGTAATTTGGATCCG	CGGATCCAAATTACCAATCACCGA
2650	GCGGGCAGGTAGTTTGA CTGGATG	CATCCAGTCAAAC TACCTGCCCGC
2651	CAAGCACAAGCCCATGAAATTTCA	TGAAATTT CATGGGCTTGTGCTTG
2652	CGGTACAGCGGATAGCCAAGGATA	TATCCTTGGCTATCCGCTGTACCG
2653	CCATGCTCTTCGCTGCAGCATACT	AGTATGCTGCAGCGAAGAGCATGG
2654	CGCGGC AAAGATTAATTC CCGGCG	CGCCGGGAATTAATCTTTGCCGCG
2655	GAAGACCCGTCCGGGTTTCCATAC	GTATGGAAACCCG GACGGGTCTTC
2656	CTGGCAAGGAGGATGTGGCTCGTG	CACGAGCCACATCCTCCTTGCCAG
2657	CTGTGCAGGGGGTGGCTCTGTTGA	TCAACAGAGCCACCCCTGCACAG
2658	TTCAATAATGATCACGAGGCCCA	TGGGGCCTCGTGATCATTATTGAA
2659	TGGTGATGCGAAGCCTTACCTTTG	CAAAGGTAAGGCTTCGCATACCA
2660	CTGCCACCATCTACGGCGCAGTCT	AGACTGCGCCGTAGATGGTGGCAG
2661	TTTGCC CAGCTCTCGCAGAAGTTA	TA ACTTCTGCGAGAGCTGGGCAA
2662	AATTCAGACGCCACATCGACGGTC	GACCGTCGATGTGGCGTCTGAATT
2663	CCGTGGTCTGCCTCGATTACCTAC	GTAGGTAATCGAGGCAGACCACGG
2664	GGCGAGGAATTTCGGAACCTTATG	CATAAGGTTCCGAAATTCCTCGCC
2665	ATCCGATGATCAGATACCGGCTGG	CCAGCCGGTATCTGATCATCGGAT
2666	CCATAGACTAGCGCCAGAGTGCCC	GGGCACTCTGGCGCTAGTCTATGG
2667	TGTGGACCTAGAAAATTGCCAGCC	GGCTGGCAATTTTCTAGGTCCACA
2668	GAATAATCATCGCGGTCTCATGG	CCATGAGGACCGCGATGATTATTC
2669	GGGATTGGCTCTTGGTTGGAAGAA	TTCTTCCAACCAAGAGCCAATCCC
2670	ATTGTGCTTCCTCGAACTGGGAAA	TTTCCAGTTCTGAGGAAGCACAAAT
2671	TGCCCCACCCGTAAGTCAATAAT	ATTATTGACTTACGGGGTGGGGCA
2672	TCAGGACCGACGGTGCACCTTAGTG	CACTAAGTGCACCGTCGGTCCTGA
2673	CCAGCCGTCACAGTGCAATTTCCG	CGGAAATTGCACTGTGACGGCTGG
2674	CTTAAAGAGGCGCGAAGCACACA	TGTTGTGCTTCGCGCCTCTTTAAG
2675	TACCGCTCGTCGCGATCACAATGA	TCATTGTGATCGCGACGAGCGGTA
2676	CCGAGTGCGCGAAGTGTCTATGTG	CACATAGACACTTCGCGCACTCGG
2677	GCACCAGTGCCCGATCAAAACGTA	TACGTTTTGATCGGGCACTGGTGC
2678	TGCAGGCTTCTCAACGGCTGGGAG	CTCCCAGCCGTTGAGAAGCCTGCA
2679	CTCCGTACGTATCCCGCGTGATAC	GTATCACGCGGGATACGTACGGAG
2680	GGAAGTGCAACTTAAAGCCCCGCC	GGCGGGGCTTTAAGTTGCACTTCC
2681	CGAACCGGCAGTCGATCGTTGCAT	ATGCAACGATCGACTGCCGGTTCG
2682	CCGTTAGTGGTCGACAGTTCGGTT	AACCGAACTGTGACCACTAACGG
2683	TCAGGCTACGCCCTCAGCACTACA	TGTAGTGCTGAGGGCGTAGCCTGA
2684	TATACGGGCCGAGGTCCGTATTCTG	CGAATACGGACCTCGGCCCGTATA

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2685	CCAACGTGTGACGAAGGGCCATTG	CAATGGCCCTTCGTCACACGTTGG
2686	CTGCTCAGCGGTGCTTGAAAGACA	TGTCTTTCAAGCACCGCTGAGCAG
2687	GGAGATTGACTTCGCGTTTCACCA	TGGTGAAACGCGAAGTCAATCTCC
2688	ATGGTTCAGAAGGTTTCGTCGGGTT	AACCCGACGAACCTTCTGAACCAT
2689	GAGTGGAGCATTCTCGGCCCTCAA	TTGAGGGCCGAGAATGCTCCACTC
2690	TGGATTGGAACCAATCCCGCACAA	TTGTGCGGGATTGGTTCCAATCCA
2691	TGCTCTTGTGGTCACTCGAGAGGA	TCCTCTCGAGTGACCACAAGAGCA
2692	TTGGGAGCACGGTTACCGCCTGTG	CACAGGCGGTAACCGTGCTCCCAA
2693	CAACGCGAGCTAACGGTAGTTTCG	CGAAACTACCGTTAGCTCGCGTTG
2694	AACGCTGAGCGCTCACCTTCACCT	AGGTGAAGGTGAGCGCTCAGCGTT
2695	CCGTCGTAGATCTGGAGGCTTCAA	TTGAAGCCTCCAGATCTACGACGG
2696	GGATGGCATGGGCACACTGTAACC	GGTTACAGTGTGCCCATGCCATCC
2697	TCGCTCGTAGATATCCTTCACGCC	GGCGTGAAGGATATCTACGAGCGA
2698	GGAGCAATACCGCGTCCAAACAC	GTGTTTTGGACGCGGTATTGCTCC
2700	TTGTTTACAGACTTAGGCGCTGCCCA	TGGGCAGCGCCTAAGTCTGAACAA
2701	CGGCGGTACTCTTCCACTGTCCT	AGGACAGTGGAAGAGTACCGCCG
2702	AAGACGATTGCCACGTGCCAGAG	CTCTGGCACGTGGGCAATCGTCTT
2703	AGGTGAGCGCAGGCATATTGCAGT	ACTGCAATATGCCTGCGCTCACCT
2704	CTCGGGCCTGTACAGCAAAGCCGT	ACGGCTTTGCTGTACAGGCCCGAG
2705	TGCGCGCTAGTGCTGCCTATGATC	GATCATAGGCAGCACTAGCGCGCA
2706	CCATCCTTTGCCTTGAGGGTAAGG	CCTTACCCTCAAGGCAAAGGATGG
2707	AACAACAGCGTAAGACGGACAGGG	CCCTGTCCGTCTTACGCTGTTGTT
2708	GAGGCGGTGAGGCTCACAATATT	AATATTGTGAGCCTCGACCGCCTC
2709	CGAGGTTAGACGCCTATGACCCAC	GTGGGTCATAGGCGTCTAACCTCG
2710	AACCTTGCTATACCGGGCGCAGCAA	TTGCTGCGCCCGGTATAGCAAGTT
2711	CGCGGTGAATCGCATACACAGCGC	GCGCTGTGTATGCGATTACCGCG
2712	CACCGAATCAAGCCATATGGCTCT	AGAGCCATATGGCTTGATTGCGTG
2713	TTACAGCTATCCTAGGCGCTGCC	GGCAGCGCCTAGGATAGCTGTGAA
2714	AGAAGCGCGAAGTGTACCCCGCAT	ATGCGGGGTACACTTCGCGCTTCT
2715	TGCATGGTATTTGCGTGCGATAGG	CCTATCGCACGCAAATACCATGCA
2716	GGCCGGACCTATGTGAGATGGAAA	TTTCCATCTCACATAGGTCCGGCC
2717	TCAACCTGAGTCCTGATCCCAAGC	GCTTGGGATCAGGACTCAGGTTGA
2718	TGCTTACCGTTCAGGGAGGCGTGT	ACACGCCTCCCTGAACGGTAAGCA
2719	GGAGAGTTACGCGATGAGCCACCT	AGGTGGCTCATCGCGTAACTCTCC
2720	CGGTATGCGGTGTACAGCTTTCGT	ACGAAAGCTGTACACCGCATACCG
2721	GTAAGCCGGGTCTCGTGTGCGCGT	ACGGCGACACGAGACCCGGCTTAC
2722	GCGTAGTGCGAACGCCCGACCTA	TAGTTCGGGGCGTTTCGCACTACGC
2723	TCCTCGCGGCTTACGTCAAATTCG	CGAATTTGACGTAAGCCGCGAGGA

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2724	CGACGTTCAAAGCGGGAGAGGAGG	CCTCCTCTCCCGCTTTGAACGTGCG
2725	CGAGGCACCCCGACATGTTGAGAT	ATCTCAACATGTCGGGGTGCCTCG
2726	CTATTTTCGTGCCGCGTCGGACAAG	CTTGTCGACGCGGCACGAAATAG
2727	GGCTGCTCAGTGACGTGTCAACTG	CAGTTGACACGTCACTGAGCAGCC
2728	ATCACTCGTGCGTACCCGACCGTC	GACGGTCGGGTACGCACGAGTGAT
2729	CGAGATGTCCTATACCGTGCGCAA	TTCGCCACGGTATAGGACATCTCG
2730	TCACACCGAGCCCCATAAATGAAA	TTTCATTTATGGGGCTCGGTGTGA
2731	AGCTACGTGTCTCGAGCAAAAGCG	CGCTTTTGCTCGAGACACGTAGCT
2732	TCAGGGCGAGTTTTTTCAGCGGCG	CGCCGCTGAAAAAACTCGCCCTGA
2733	TTCGTTCTGTCTATTTTTGCCCGG	CGGGGCAAAAATAGACAGAACGAA
2734	TGGTATGCCCAGGATCCAGCCTAC	GTAGGCTGGATCCTGGGCATACCA
2735	TCTCAGTCGTTAGGCCAATGGCGG	CCGCCATTGGCCTAACGACTGAGA
2736	AAAGATCACCGTGGAGCGATCGGC	GCCGATCGCTCCACGGTGATCTTT
2737	TAGCAGGACTTGCACTCGTGATGC	GCATCACGAGTGCAAGTCCTGCTA
2738	TGCCACGGTACCGTTCAAGGCTG	CAGCCTTGAACGGTACCGTGGGCA
2739	TGAGGTGCGTCGCCCTAAGTAATG	CATTACTTAGGGCGACGCACCTCA
2740	AGCAAGGGTTACAACCCGCAACCC	GGGTTGCGGGTTGTAACCTTGCT
2741	CACAACAGCCAGTATTCGCCACAA	TTGTGGCGAATACTGGCTGTTGTG
2742	GGCAACACCATACTCGACGAGCTC	GAGCTCGTCGAGTATGGTGTTGCC
2743	GGCTGGATTGACAATTTAGCCCCT	AGGGGCTAAATTGTCAATCCAGCC
2744	CGTGAGAAATGCTACACGCGTCAG	CTGACGCGTGTAGCATTTCTCAGG
2745	CGCATCTGCCCCATTTTGTTCTT	AAGGAACAAAATGGGGCAGATGCG
2746	GTCGGCCTAGTCGGCAGAACGGTG	CACCGTTCTGCCGACTAGGCCGAC
2748	TCCCTCACCTTCCAAAAATGTGCT	AGCACATTTTGGAAAGGTGAGGGA
2749	GGGCAAGAACATGAGAACAGACCG	CGGTCTGTTCTCATGTTCTTGCCC
2750	TCGTCCTGGTACGACTTGCGTAGA	TCTACGCAAGTCGTACCAGGACGA
2751	TGGCGGTTGCATGTGATGATCAAG	CTTGATCATCACATGCAACCGCCA
2752	CCTCGCGTGAGTAAAAACCGTCCG	CGGACGGTTTTTACTCACGCGAGG
2753	ACTTCCGCCACAGAATGCGGCCAG	CTGGCCGCATTCTGTGGCGGAAGT
2754	GTGTAGAGCTTGGGTAGCCCCGTT	AACGGGGCTACCCAAGCTCTACAC
2755	CGCAGCATCCGAGTTAACACACAT	ATGTGTGTAACTCGGATGCTGCG
2756	ATGAGCCTGGGATGATCCGCTGGT	ACCAGCGGATCATCCAGGCTCAT
2757	CCTGGCATAAGTGCCGACATGCTT	AAGCATGTCGGCACTTATGCCAGG
2758	GCGCATGAAAACTACGACGGACG	CGTCCGTCGTAGTTTTTCATGCGC
2759	AAAGATGGGTCGATGGGAGCGTCT	AGACGCTCCCATCGACCCATCTTT
2760	ATCCTGGGCACGAGCGGATTTATC	GATAAATCCGCTCGTGCCGAGGAT
2761	TCACCGCATTTGATAGTTACGCGA	TCGCGTAACTATCAAATGCGGTGA
2762	TGGTGGAGCGGACTCTGGTGTTAT	ATAACACCAGAGTCCGCTCCACCA

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2763	CACAATGAAAAACAATGGCCCCA	TGGGGCCATTGTTTTTTCATTGTG
2764	CCTTGCCGCGCTTGTGGTACCAAC	GTTGGTACCACAAGCGCGGCAAGG
2765	CCGAGACCTTTGCCACACGAAAGA	TCTTTCGTGTGGCAAAGGTCTCGG
2766	ACCGCGGTGTACACCTGAGCAGGC	GCCTGCTCAGGTGTACACCGCGGT
2767	GTCGTACGCTTACCGCAGCGGAGA	TCTCCGCTGCGGTAAGCGTACGAC
2768	TCGTAATTTGACCGACACACGCAG	CTGCGTGTGTCGGTCAAATTACGA
2769	CCTAGACGGATACCCTGAGCGGAA	TTCCGCTCAGGGTATCCGTCTAGG
2770	AAGCGACAGCAGAGGTTCAAGTCGC	GCGACTGAACCTCTGCTGTGCTT
2771	GCGTGGACGATATCACCTGGGCGT	ACGCCCAGGTGATATCGTCCACGC
2772	GTCGGAGAGCCAGTGGTACGGCTT	AAGCCGTACCACTGGCTCTCCGAC
2774	TATCCGCACGGTATAGCAGTTGCA	TGCAACTGCTATACCGTGCGGATA
2775	CATCAGTCGGGCTACCTTCAGCCT	AGGCTGAAGGTAGCCCGACTGATG
2776	CGGATTAATGCCTTTCCTCGGAAT	ATTCCGAGGAAAGGCATTAATCCG
2777	TTCGTCTGTCCAAGCTAATGCAAG	CTTGCATTAGCTTGGCACGACGAA
2779	GGCCGAGACCACAGTAACAGGTT	AACCTGTTACTGGTGGTCTCGGCC
2780	CGCGCGGAAGCATTGAAGTTACTA	TAGTAACTTCAATGCTTCCGCGCG
2781	TCGGCTTACCGCTTCGTCTGACTT	AAGTCAGACGAAGCGGTAAGCCGA
2782	GACTGACGTCAAGGCAAGCAACAC	GTGTTGCTTGCCCTTGACGTCAGTC
2783	AGAGGAAGGAGGGGCTGTGACAGA	TCTGTCACAGCCCCCTCCTTCCTCT
2784	TTCCAATGCGAGAGATGGCAGGCT	AGCCTGCCATCTCTCGCATTGGAA
2785	AAATGGGGTGCTTCGAATATGTCG	CGACATATTCGAAGCACCCCATTT
2786	GCTGTCTGGATTATTGCACGCCTGT	ACAGGCGTGCAATAATCCGACAGC
2787	CCGACTTTGTTTATGTTGCTGGCG	CGCCAGCAACATAAACAAGTCGG
2788	GCTGCGATATAACCCGTCCAGAA	TTCTGGGACGGGTATATCGCAGC
2789	TGAGCTGGGCGTCAACTCCGAAGA	TCTTCGGAGTTGACGCCCAGCTCA
2790	CCCAAGCATCCTAAATCTCCCTCG	CGAGGGAGATTTAGGATGCTTGGG
2791	CGACAGCAATCCACATGCATTCTT	AAGAATGCATGTGGATTGCTGTCG
2792	TGAATGGTCTGGGAAACCAATGCAT	ATGCATTGGTTTCCCGACCATTCA
2793	CTTTGCATCGAGATGCGGGGTAGC	GCTACCCCGCATCTCGATGCAAAG
2794	TCCATTTCTCCGCAACTCTCAGG	CCTGAGAGTTGCGGAGGAAATGGA
2795	CCACTACGCCATCCTGACAACGAG	CTCGTTGTCAGGATGGCGTAGTGG
2796	TAGTAAGGCCAATGTACGCCGTCC	GGACGGCGTACATTGGCCTTACTA
2797	GTCATGCATATGGGGCCTGTTTTT	GAAAACAGGCCCCCATATGCATGAC
2798	ACCGGTAGACGTTAGCGGGTTCAA	TTGAACCCGCTAACGTCTACCGGT
2799	TTGGTTCAAACGGCCACACGTCTC	GAGACGTGTGGCCGTTTGAACCAA
2800	GACACAACTGCAAGGGAGGCATG	CATGCCTCCCTTGCAGTTTGTGTC
2801	CTCGAGCGCTGTCATCATATCGGC	GCCGATATGATGACAGCGCTCGAG
2802	GCGGCTAAGGCACAAGTAGACGTG	CACGTCTACTTGTGCCTTAGCCGC

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2803	ACAGCCTAAATGGCGCAAGACCGA	TCGGTCTTGCGCCATTTAGGCTGT
2805	CCGATGATGTAAGCCGTCGGCCCT	AGGGCCGACGGCTTACATCATCGG
2806	AGGAGCAAACAAACGCCAGTGACA	TGTCACTGGCGTTTGTTCGCTCCT
2807	ACGAATTGGGTAGCCGGACTGAGA	TCTCAGTCCGGCTACCCAATTTCGT
2808	CTGTTCCAGTTCGGCAAGTGCGGC	GCCGCACTTGCCGAAGTGAACAG
2809	AGACAAGTCAGGAACGCGTTTCCG	CGGAAACGCGTTTCTGACTTGTCT
2810	AGACGACGGCCAGATACGCTGCCA	TGGCAGCGTATCTGGCCGTCGTCT
2811	AGGAAGCGCTTCTTCCGGTTCTTC	GAAGAACCGGAAGAAGCGCTTCT
2812	GATGGACGCAACACAAGGCGATC	GATCGCCTTGTGTTTGCCTCCATC
2813	CGCATAGCAGTCTCCGCATCTTGG	CCAAGATGCGGAGACTGCTATGCG
2814	TGGTTCGGGTGTGCAACAGATAAA	TTTATCTGTTGCACACCGGAACCA
2815	CCGTATGCCACCTCCAGAACTCAA	TTGAGTTCTGGAGGTGGCATAACGG
2816	GTAAAGGAACCCCTCGGGAATCCT	AGGATTCCCGAGGGGTTCTTTTAC
2817	GCCTGATGCTCGTTAAAATTGCGT	ACGCAATTTTAACGAGCATCAGGC
2818	TCGCACTTGGACCATGAGATCTGA	TCAGATCTCATGGTCCAAGTGCGA
2819	TTCTCAGGCTGGGCAAGAGTCTGT	ACAGACTCTTGCCCAGCCTGAGAA
2820	CGGACCTGGGGATGCTGGGATTAC	GTAATCCCAGCATCCCCAGGTCCG
2821	TCGAGCCGATAGGGTTGGCATTGC	GCAATGCCAACCCCTATCGGCTCGA
2822	TACGTGTGTCCACACACGTCGTA	TACGACGTGTGTGGGACACACGTA
2823	TGTGAAATTCGCGTTTCGCATCTT	AAGATGCGAAACGCGAATTTTACA
2824	TTGCAATGCTCCAAAAAACCTGCC	GGCAGTTTTTTTGGAGCATTGCAA
2825	TCTCATCATGGCTGTGGCTTTGAC	GTCAAAGCCACAGCCATGATGAGA
2826	ATTACACCGCTTGGTTTGGAGTGG	CCACTCCAAACCAAGCGGTGTAAT
2827	GCCGTGCAATGCACAGAGTTCAAG	CTTGAACCTGTGTGCATTGCACGGC
2828	GAGATCAGACCGTGTCCGATGCTG	CAGCATCCGACACGGTCTGATCTC
2829	CCACCTATCTTGATGCGACCTGGA	TCCAGGTGCGCATCAAGATAGGTGG
2830	CCGATCGCCGTTTATGTCTACGGC	GCCGTAGACATAAACGGCGATCGG
2831	GAAAATCACGGTAAGGCACGTTTCG	CGAACGTGCCTTACCGTGATTTTC
2832	GATTCTCGCTTCCCAACGAGCATA	TATGCTCGTTGGGAAGCGAGAATC
2834	TGTGAAATGTGGCAGTCTCAGGGA	TCCCTGAGACTGCCACATTTTACA
2835	CGATCCTGCGTGCCTCATCCAGGC	GCCTGGATGAGGCACGCAGGATCG
2836	CCCTCAAGTGGGCGAGGGTTTTCA	TGAAAACCCCTCGCCCACTTGAGGG
2837	TCGCCTCCGCCTCGTGTGTAGAAG	CTTCTACACACGAGGCGGAGGCGA
2838	TTGCTTTTACGCTCATTGGAACGA	TCGTTCCAATGAGCTGAAAGCGAA
2839	TGTAATCTGAACAAGCGGACCCCT	AGGGGTCCGCTTGTTCAGATTACA
2840	TGGAATCTTTCTTGAGCGCCGTGA	TCACGGCGCTCAAGAAAGATTCCA
2841	GGCTTTTCATCTTTAACCGCTCGGT	ACCGAGCGGTTAAAGATGAAAGCC
2842	TGATCCGAGCCATTCTAATCACC	GGTGATTAGGAATGGCTCGGATCA

Serial No.: 09/940,185

Filed: August 27, 2001

2843	TGGTAGGCGTGATGTCCTACGCAA	TTGCGTAGGACATCACGCCTACCA
2844	AGGCATCGGTAAGAAGGCCCTATG	CATAGGGCCTTCTTACCGATGCCT
2845	CGCCGCGAGACGATCCTTATTATT	AATAATAAGGATCGTCTCGCGGCG
2846	ACATGGACGAAATTACGCCCGTCA	TGACGGGCGTAATTTCTGCCATGT
2847	ACAGAAAGGTGGGGAGCCTAGCGT	ACGCTAGGCTCCCCACCTTTCTGT
2848	AGGCTTGCGAACATGGGTAGTGAC	GTCACTACCCATGTTTCGCAAGCCT
2849	GCGTGGGCCTTGCTCCTGTTTAAC	GTTAAACAGGAGCAAGGCCACGC
2850	GAATACAGAGCGTCCGATGTGCCC	GGGCACATCGGACGCTCTGTATTC
2851	GCGACTCTGTAGGGAGCGCGATAT	ATATCGCGCTCCCTACAGAGTCGC
2852	GGTGCACTCATATGCGTCGCATCG	CGATGCGACGCATATGAGTGCACC
2853	CTGTCCACGCGGGAACCTTACTT	AAGTAAGGTTTCCCCGTGGGACAG
2854	TGGCTTACTGTCGCAATCTAGGCC	GGCCTAGATTGCGACAGTAAGCCA
2855	GCACTCAGTTTCCGGTATCCCATG	CATGGGATACCGGAAACTGAGTGC
2856	GTGAGGTTACGTAAGGCACAGCG	CGCTGTGCCTTACGTGAACCTCAC
2857	GTAACGCCTTTGTCCCCAGCGTAT	ATACGCTGGGACAAAGGCGTTAC
2858	GCATTGATATGGTCGGTCTCGCCT	AGGCGAGACCGACCATATCAATGC
2859	GTGGGTTTAAGTGACAACGGACGC	GCGTCCGTTGTACTTAAACCCAC
2860	CAAAACCCTGCCGAAGATGTTGGT	ACCAACATCTTCGGCAGGGTTTTG
2861	TCCGAGGAGACTGAACCTGCTACC	GGTAGCAGGTTCACTCTCCTCGGA
2862	CGGGGAAGAACGGATTTCGCTAAAT	ATTTAGCGAATCCGTTCTTCCCCG
2863	TGGTTAGCTTATGTCGGAGCCACC	GGTGGCTCCGACATAAGCTAACCA
2864	ACGCGTCGATGAACTAAGGCTCGC	GCGAGCCTTAGTTCATCGACGCGT
2865	TTCTCCTGACGAGTACGCAGTGGG	CCCACTGCGTACTCGTCAGGAGAA
2866	TCCGCGGTTGCCGTTTGTTAGGA	TCCTAACAAACCGGCAACCGCGGA
2867	TGGCGCATCTTTCAGGGGATGATG	CATCATCCCCTGAAAGATGCGCCA
2868	TCTTTGGTCCTTGGTGTTTACGCG	CGCGTAAACACCAAGGACCAAAGA
2869	GAGAACTCCCGCTACAAAGGAGCC	GGCTCCTTTGTAGCGGGAGTTCTC
2870	TTAACGTGGGAACCGTTGGTGAAT	ATTCACCAACGGTTCACAGTTAA
2871	GGGACACCATCCTTGGGTTTGTTA	TAACAAACCCAAGGATGGTGTCCC
2872	CAACAAACCGCCTTGGAAGTGAC	GTCACTTCCAAGGCGGTTTGTTG
2873	TTGAAGGCCACCGATACTGATCGC	GCGATCAGTATCGGTGGCCTTCAA
2874	TCGTAATAGAACTGCGCCCAATGC	GCATTGGGCGCAGTTCTATTACGA
2875	GGCACGTTGCCCAAGTTGGATCCA	TGGATCCAAGTTGGGCAACGTGCC
2876	ACATAGCTTGCCCGGACACCCACC	GGTGGGTGTCCGGCCAAGCTATGT
2877	CTTGCCGCTTGCGAGTGGCTAAA	TTTAGCCACTCGCAAGGCGGCAAG
2879	AATGGCTCGCCAGATACCGCAGCC	GGCTGCGGTATCTGGCGAGCCATT
2880	CAAAAGGCGTGTCCGAACCTTTCA	TGAAAAGTTCGGACACGCCTTTTG
2881	CGTCCACTTAGGTGGAGATACGCC	GGCGTATCTCCACCTAAGTGGACG

Serial No.: 09/940,185

Filed: August 27, 2001

A9

2882	GAGCCTCTTCGTCCTGAAGACCGA	TCGGTCTTCAGGACGAAGAGGCTC
2883	AACATCAAGCGGCAATCTCCCTTC	GAAGGGAGATTGCCGCTTGATGTT
2884	CGTCCTGACATTATTAGCGCGTGC	GCACGCGCTAATAATGTCAGGACG
2885	TGTGCAGACCCTAACGACCTACGG	CCGTAGGTCGTTAGGGTCTGCACA
2886	TTAGGTGGCCTAGACCCTCCGTA	TACGGAGGGTCTAGGCCGACCTAA
2887	TCACATCGCTTAACTGAGCGCATT	AATGCGCTCAGTTAAGCGATGTGA
2888	AGACCTTCCCACGCGAGATGCTAC	GTAGCATCTCGCGTGGGAAGGTCT
2889	TTCTTGCCAAAATGTGTCCAACCA	TGGTTGGACACATTTTGGAAGAA
2890	CAGTTTTTCATTGCAGCGAAAGCAA	TTGCTTTCGCTGCAATGAAAAC TG
2891	GTGCCGATCCCGAGACAAGTTCCG	CGGAAC TTGTCTCGGGATCGGCAC
2892	CATCCGGCCTCAGTGATTCTTACC	GGTAAGAATCACTGAGGCCGGATG
2893	TGCTGGAAGCCACAAACGTTACGT	ACGTAACGTTTGTGGCTTCCAGCA
2894	GAACGGCCAGGGGACAACTATCGT	ACGATAGTTGTCCCCTGGCCGTTT
2895	TCATCTAGGTCGAAGCGCAAGACA	TGTCTT GCGCTTCGACCTAGATGA
2896	TTTGGTTACCAGCACCCATGTTCC	GGAACATGGGTGCTGGTAACCAAA
2897	GACAACAGTCTGTCCGCCACATCC	GGATGTGGCGGACAGACTGTTGTC
2898	GCCAACAGGAGATGCTTGACCAT	ATGGTGCAAGCATCTCCTGTTGGC
2899	CTAAGGACGCATTGACCCCTGAAC	GTTCAGGGGTCAATGCGTCCTTAG
2900	GGTCGCGTAGTGAGTCAGAGGCGT	ACGCCTCTGACTCACTACGCGACC
2901	TTACCTCATGAACCCTTCGCGGCG	CGCCGCGAAGGGTTCATGAGGTAA
2902	TATACAGCATCGTCGCCGGGCATA	TATGCCCGGCGACGATGCTGTATA
2903	GCTTAGTGGCGTCTTCGTCTAGG	CCTACGACGAAGACGCCACTAAGC
2904	TGCACTCCGCAACCTTGTGAAATC	GATTTACAAGGTTGCGGAGTGCA
2905	AACCCGT CATGCCGACTCCATCTA	TAGATGGAGTCGGCATGACGGGTT
2906	AGCACTAGTGGCGTGCGACTTTGC	GCAAAGTCGCACGCCACTAGTGCT
2907	TAAAAAGTGCCGCTAACCACGGAG	CTCCGTGGTTAGCGGCACTTTTTA
2908	CGCGGAATATTTGTCGTCCGATTC	GAATCGGACGACAAATATTCCGCG
2909	TTCTGCTATGCGTATGGGGGCCCG	CGGGCCCCCATACGCATAGCAGAA
2910	CGAACTACTGCGTCAGCCTCTCCC	GGGAGAGGCTGACGCAGTAGTTCG
2911	AGATGACGAATTAGCGGGGTTGGG	CCCAACCCCGCTAATTCGTCATCT
2912	AATAACAGTGGCAATGAGCGGGAA	TTCCCGCTCATTGCCACTGTTATT
2913	ATATGTTGATTCCCGTGCTGCACA	TGTGCAGCACGGGAATCAACATAT
2914	AGAGTGGGCACCACCAGGCAGACA	TGTCTGCCTGGTGGTGCCCACTCT
2915	AGGCCTGGGTTTCTGCGTCTTAGT	ACTAAGACGCAGAAACCCAGGCCT
2917	CGGACGTGACAAACGGACATACCC	GGGTATGTCCGTTTGTACGTCCG
2918	CAAGTGTTTCGGCCCACTCTCGA	TCGAGAGTTGGGCCGAAACACTTG
2919	GAACCCTTATCGGGATAGGCCCAA	TTGGGCCTATCCCGATAAGGGTTC
2920	CAGGACGATACCAAGCAGAACGCC	GGCGTTCTGCTTGGTATCGTCCTG

Serial No.: 09/940,185

Filed: August 27, 2001

2921	GCGTCTTGTGATTCTGCCCTAACC	GGTTAGGGCAGAATCACAAGACGC
2922	AAACAACCATCAATGTCGGGTCCA	TGGACCCGACATTGATGGTTGTTT
2923	TGTAAAGACCAGTTGGCGGCTCTC	GAGAGCCGCCAACTGGTCTTTACA
2924	GCGTTTTGACTCGGTGGTCAGTCC	GGACTGACCACCGAGTCAAAACGC
2925	TGTATGGAGGCACGGCAAAGTCTT	AAGACTTTGCCGTGCCTCCATACA
2926	TTACCTAGGTTCCCGCTGACACGC	GCGTGTGAGCGGGAACCTAGGTAA
2927	CGGCTCGTGGGAATCCTCTGAAGA	TCTTCAGAGGATTCCCACGAGCCG
2928	CCGGCTCGGGCATTCTTGACCT	AGGTCCAAGAAATGCCCGAGCCGG
2929	CAACGATGGAATTGTCTCCTTGGG	CCCAAGGAGACAATTCCATCGTTG
2930	CGGGCTATTATCGGGATTATGGGG	CCCCATAATCCCGATAATAGCCCG
2931	ACGTACCTGAAGATGCAACGGCGG	CCGCCGTTGCATCTTCAGGTACGT
2932	CATGGTGCAGCACGCACAAGTAAC	GTTACTTGTGCGTGCTGCACCATG
2933	CGTCGATATGTCGGGCTATTGCCT	AGGCAATAGCCCGACATATCGACG
2934	AAATGCAGGGTTAAGAGGAGGCCC	GGGCCTCCTCTTAACCCTGCATTT
2935	TGCAAGGACTGATTCTCCCGCTGT	ACAGCGGGAGAATCAGTCCTTGCA
2936	GTTTTCGGAACGCCGCAGAGTTCA	TGAACTCTGCGGCGTTCCGAAAC
2937	CCCTCGATGGTTCATTGGGAAGAC	GTCTTCCCAATGAACCATCGAGGG
2938	CCTGTTGCTCATAATGGTGGGGT	ACCCACCATTAATGAGCGAACAGG
2939	GAAAGAACGATCGCGGAATAGCTG	CAGCTATTCCGCGATCGTTCCTTC
2940	TCCACCTGTGTGCCTTTATCCTCA	TGAGGATAAAGGCACACAGGTGGA
2941	TCCTCCGTGAACCGCTGTAGCGCA	TGCGCTACAGCGGTTACGAGGA
2943	TTGAGATTTTACGGTTTCCCCGC	GCGGGGAAACCGTAAAAATCTCAA
2944	CGATAGGACGTGGGCATGTCCCAG	CTGGGACATGCCACGTCTATCG
2945	CCCGAACTTTGAGATCCGAGAACAA	TGTTCTCGGATCTCAAAGTTCGGG
2946	TCACGCAGCTAGAGTCGCGTTACC	GGTAACGCGACTCTAGCTGCGTGA
2947	AGATAACGCCCACTGACGACATGC	GCATGTCGTCAGTGGGCGTTATCT
2948	ACGCTTAGAGCTCCGATGCCGAAT	ATTCGGCATCGGAGCTCTAAGCGT
2949	GGGCGATAACTTAAATTGTGCCGC	GCGGCACAATTTAAGTTATCGCCC
2950	AGGACGTTTCATGCGTCTCTTTGCA	TGCAAAGAGACGCATGAACGTCCT
2951	CGGCTGGTAGAACTGTGCATCGTA	TACGATGCACAGTTCTACCAGCCG
2952	TTCGAAATGTACTTCCCACGCGGA	TCCGCGTGGGAAGTACATTTCGAA
2953	GCAGGTTGGCTGTCTTGTTGGAGTC	GACTCCACAAGACAGCCAACCTGC
2954	CGTTTGGTTGCTTCAAGAACCGGT	ACCGGTTCTTGAAGCAACCAAACG
2955	CATACTTGGTTGTTGTGCCACGC	GCGTGGGCACAACAACCAAGTATG
2956	GGGGTCGGCTGAAGTGTTTTATCC	GGATAAAACACTTCAGCCGACCCC
2957	GTGACGGTTGATTAACGACCGTGG	CCACGGTCGTTAATCAACCGTCAC
2958	CTTATGGCAGCGCCAGGGGCACTC	GAGTGCCCTGGCGCTGCCATAAG
2959	GTTAGGGGACCCACCTCGTTTGAT	ATCAAACGAGGTGGGTCCCCTAAC

A9

Serial No.: 09/940,185

Filed: August 27, 2001

2960	CAATATAAATGCCGCGCATCGAGT	ACTCGATGCGCGGCATTTATATTG
2961	TTCTTCATCAGCAGTCCCCGAGAA	TTCTCGGGGACTGCTGATGAAGAA
2962	AGTTGCGTCCCTTGATGGCATT	AAAATGCCATCAAGGGACGCAACT
2963	CCGACTTTCGTCCACGATTCTCT	AGAGGAATCGTGGACGAAAGTCGG
2964	ACTTGCCCGGACGACAGCAAAGAC	GTCTTTGCTGTCGTCCGGCCAAGT
2965	CACCGCGGTAGATGTATCCCTTCC	GGAAGGGATACATCTACCGCGGTG
2966	GTTAGCTTTAGCTCGGCACGCCTG	CAGGCGTGCCGAGCTAAAGCTAAC
2967	GCGCATAAGAAGGTCCGCTAAAGC	GCTTTAGCGGACCTTCTTATGCGC
2968	ACATCATCACGCCTGGCGTGACCA	TGGTCACGCCAGGCGTGATGATGT
2969	CCGGCGAAGTTTGGTGTGATTAGA	TCTAATCACACCAAACCTTCGCCGG
2971	TGCACCGCCAGATTGTGCTGAGTC	GACTCAGCACAATCTGGCGGTGCA
2972	ACATGTGAAGTGAGTGCCGTCCAA	TTGGACGGCACTCACTTCACATGT
2973	CCTCTGGAGGGGATTAGCCACGCT	AGCGTGGCTAATCCCCCTCAGAGG
2974	CAATAGCCATGTCACTGGCAACGG	CCGTTGCCAGTGACATGGCTATTG
2975	ACCCATGGTTCCAACGTTCTTTCG	CGAAAGAACGTTGGAACCATGGGT
2976	AATCTGGTCTTGGCATCCTCCAAA	TTTGGAGGATGCCAAGACCAGATT
2977	GTATACCGGTGCATGCTGAAGCAA	TTGCTTCAGCATGCACCGGTATAC
2978	AGTGTTCTGGTTCGAGTCGACCCG	CGGGTCGACTCGAACCAGAACACT
2979	CGGGTATTCGACACACACGAGGAC	GTCCTCGTGTGTGTGCAATACCCG
2980	AGTGCAACAGAGCGCTTGGTCACG	CGTGACCAAGCGCTCTGTTGCACT
2981	TGCACCTATAGTTTGGTGCCGGTG	CACCGGCACCAAACCTATAGGTGCA
2982	TGCTCACGTACCAGGACACTCGAG	CTCGAGTGTCTTGGTACGTGAGCA
2983	AGTCCACACCTCGAACGACAGGCG	CGCCTGTCGTTGAGGTGTGGACT
2984	CGCCGACCTGGTCAAAGAGCGCTA	TAGCGCTCTTTGACCAGGTCGGCG
2985	GCCTAAGGGCCTGTCGTTTTCCGA	TCGGAAAACGACAGGCCCTTAGGC
2986	TGTGCGTGCTTATGTTCCGGTCTC	GAGACCGGAACATAAGCACGCACA
2987	CAACCGTTGGCCGTAACAAAAATC	GATTTTTGTTACGGCCAACGGTTG
2988	CGAGAATCAAGGCGTACCATCTCG	CGAGATGGTACGCCTTGATTCTCG
2989	GCGTAGGCAGCCTCCAGGGAATGG	CCATTCCCTGGAGGCTGCCTACGC
2990	GATGGTGTTTTCGCCAAGACCAAT	ATTGGTCTTGGCGAAAACACCATC
2991	CAAGCTAGGGACAGAATTGCCAC	GTGGGCAATTCTGTCCCTAGCTTG
2992	TAAATAGGCGAAACCGTTCGTGGC	GCCACGAACGGTTTCGCCTATTTA
2993	TCAAGACCCGCAATGTGTTTATGT	ACATGAACACATTGCGGGTCTTGA
2994	GCGGCTGGTAGACTCTTTGCACAA	TTGTGCAAAGAGTCTACCAGCCGC
2995	CAGGCGTAAACCTGAACCAAACGG	CCGTTTGGTTCAGGTTTACGCCTG
2996	GCCGATCTGTGCTGAGGTTTATCA	TGATGAACCTCAGCACAGATCGGC
2997	GATATCGCGTCGCAATATCACGCG	CGCGTGATATTGCGACGCGATATC
2998	CCCTGCACGATTAAGCCACCTGTA	TACAGGTGGCTTAATCGTGCAGGG

Serial No.: 09/940,185

Filed: August 27, 2001

2999	TGACATACAGATTTGTGTGGCCCC	GGGGCCACACAAATCTGTATGTCA
3000	GTTTGCGGCCGGTATTCACGATGT	ACATCGTGAATACCGGCCGCAAAC
3001	TTTTACCTGGCCATTGGTGAGCTC	GAGCTACCAATGGCCAGGTAAAA
3002	CTCTACTCAATCAGGGTGGGAGCG	CGCTCCCACCCTGATTGAGTAGAG
3003	GGGTTGGAGGGAGTCTTGACCATT	AATGGTCAAGACTCCCTCCAACCC
3004	CGAGGTCGGTAAGGAAAAGCTTGC	GCAAGCTTTTCCTTACCGACCTCG
3005	CTTTACGCAGGCACCTCCGAGCTG	CAGCTCGGAGGTGCCTGCGTAAAG
3006	CATTGTATGGCCACGTGATTGACG	CGTCAATCACGTGGCCATACAATG
3007	GTACGGTGCGAGAGCGCCTAAGCG	CGCTTAGGCGCTCTCGCACCGTAC
3008	TTCCATATGCCGAAATGGACACAA	TTGTGTCCATTTCCGCATATGGAA
3009	TACGCCTTCCGCTATAGCTCGTGA	TCACGAGCTATAGCGGAAGGCGTA
3011	CTGTACGCCACGCATGAAGGGTGA	TCACCCTTCATGCGTGGCGTACAG
3012	CTTACGCGTCCAATGACTGCCACC	GGTGGCAGTCATTGGACGCGTAAG
3013	CACATGGTAGAACTCGATCGGCAG	CTGCCGATCGAGTTCTACCATGTG
3014	CGCACCGGAAACTAGTGGATGTGT	ACACATCCACTAGTTTCCGGTGCG
3015	ACTATGGCAACCGACACTTGGTCC	GGACCAAGTGTGCGTTGCCATAGT
3016	CTAGTTTGCGCTACCCACCTGCAA	TTGCAGGTGGGTAGCGCAAACCTAG
3017	TAGTATCGCCCGACAATAGCCTGG	CCAGGCTATTGTGCGGCGATACTA
3018	CCAATATTTACGGCCTGATCAGCG	CGCTGATCAGGCCGTAAATATTGG
3019	ATGGCTATCCCTTACTGGCTCGCC	GGCGAGCCAGTAAGGGATAGCCAT
3020	CAAACTTGGCAGGCTTGGGACTT	AAGTCCCAAGCCTGCCAAGTTTTG
3021	AATGACCGAGGCTGCAAGATTGAC	GTCAATCTTGCAGCCTCGGTCAAT
3022	ATCATCTTTCGCCACCAGACATGG	CCATGTCTGGTGGCGAAAGATGAT
3023	CGTTATTACCGATGCACACGTTGC	GCAACGTGTGCATCGGTAATAACG
3024	CACACTGGCAATCGCCTCCCTCGT	ACGAGGGAGGCGATTGCCAGTGTG
3025	AGGTTGGTAGGAAATCGGAGCGCT	AGCGCTCCGATTTCTACCAACCT
3026	GCTGAACCACTGTGGTCAAGATGC	GCATCTTGACCACAGTGGTTCAGC
3027	CGTTGAGTACGACACGGTCGAGGT	ACCTCGACCGTGTGCTACTCAACG
3028	TTTTTCCGCCGCAATGTGATCTAA	TTAGATCACATTGCGGCGGAAAAA
3029	ACAATACCTCGACCGCTCAGCATC	GATGCTGAGCGGTGAGGTATTGT
3030	AGTATCCCTGCTGGCATACACGGG	CCCGTGTATGCCAGCAGGGATACT
3031	TCTTGGGCTCGGTAGTTCAGCACT	AGTGCTGAACTACCGAGCCCAAGA
3032	CCCTATATCGAGCCCATAGGGCGA	TCGCCCTATGGGCTCGATATAGGG
3033	CACGAGTGGCATCAACGGCCTACT	AGTAGGCCGTTGATGCCACTCGTG
3034	TGCAGGGTCCGATGTGTTCAAGTA	TACTTGAACACATCGGACCCTGCA
3035	GCTTGACCGCTGCTAACCTCGTAC	GTACGAGGTAGCAGCGGTCAAGC
3036	TTTTGCATCTCTCCACCATCCAGA	TCTGGATGGTGGAGAGATGCAAAA
3037	AGAATGTGCACCGGCTTCCATCTT	AAGATGGAAGCCGGTGCACATTCT

Serial No.: 09/940,185

Filed: August 27, 2001

3038	TGTTATGACCCGCTCTGTGGCGTG	CACGCCACAGAGCGGGTCATAACA
3039	GGAGCTCCTGTTTCATCGAGGCTA	TAGCCTCGATGAAACAGGAGCTCC
3040	CATTTTGCTGTTTGGGGGTCCCAT	ATGGGACCCCCAAACAGCAAAATG
3041	CCCGCTCCTTCACGTGAGACGAGA	TCTCGTCTCACGTGAAGGAGCGGG
3042	GCGCTCAAGTCGATTGCCACAACC	GGTTGTGGCAATCGACTTGAGCGC
3043	CGGTTGACGGAGACCGCAGTACTT	AAGTACTGCGGTCTCCGTCAACCG
3044	ACTCAAGACCGGTGCACCTCCAGC	GCTGGAGGTGCACCGGTCTTGAGT
3046	TTTCGTGTGCATGCAAGTAATGGC	GCCATTACTTGATGCACACGAAA
3047	GCGGCGTTAGCTCGAGCTAACAAA	TTTGTTAGCTCGAGCTAACGCCGC
3048	GGGTATCCTGCCCGAGCAGTAATT	AATTACTGCTCGGGCAGGATACCC
3049	GGCTCCGAATCTCTTGTCGGGTCT	AGACCGGACAAGAGATTCGGAGCC
3050	AGGATGGCCACGCCGAATCAAAGT	ACTTTGATTGCGCGTGGCCATCCT
3051	GTGCGGGGACGTTTACATAACGAG	CTCGTTATGTAAACGTCCCCGCAC
3052	ACTTTTGACCTGAGGCCGCTTGCA	TGCAAGCGGCCTCAGGTCAAAAGT
3053	ACTCCGCTTCAATGGAGACCGTTG	CAACGGTCTCCATTGAAGCGGAGT
3054	GATCGGAATTCGCCGCCATATTGA	TCAATATGGCGGCGAATTCCGATC
3055	ATGCGTGCCCATGGAATGACTTTT	AAAAGTCATTCCATGGGCACGCAT
3056	CCGCATCGCACGAAGGCAGGTCAT	ATGACCTGCCTTCGTGCGATGCGG
3057	CACCCTATGCGTCTCCAATTCCTG	CAGGAATTGGAGACGCATAGGGTG
3058	TGATATGCATCGCTGAGCCTCTGT	ACAGAGGCTCAGCGATGCATATCA
3059	AGCTTCACACGCTCACTGAACCTG	CAGGTTCAGTGAGCGTGTGAAGCT
3060	AACCCGGAACCTCCTCTCACTCGG	CCGAGTGAGAGGAGGTTCCGGGTT
3061	CTCGTCAAACCTTGGCCGAGGAGTC	GACTCCTCGGCCAAGTTTGACGAG
3062	GTAGCTGGCAACAGGCAATCAGGA	TCCTGATTGCCTGTTGCCAGCTAC
3063	CTTGTCACGAATATTGCCAAGCG	CGCTTGGCGAATATTCTGTGACAAG
3064	CAGTATCTGAAACACGGGGTGCTG	CAGCACCCCGTGTTTCAGATACTG
3065	GGCTAAAATGGGCGCCACGTGTA	TACACGTGGGCGCCCATTTTAGCC
3066	ATGAGAGCCAAGCGCCTCAACTCC	GGAGTTGAGGCGCTTGGCTCTCAT
3067	TATTGTTAGGCACCGCTTCGCGCT	AGCGCGAAGCGGTGCCTAACAATA
3068	GGAAGTAGATTGCCAGTGCTCGCC	GGCGAGCACTGGCAATCTAGTTCC
3069	AGTCGACCCCAAGGCAACTGGGTC	GACCCAGTTGCCTTGGGGTCGACT
3070	GGTACTGTTAGCTCGACGATGGCC	GGCCATCGTCGAGCTAACAGTACC
3071	CCGCAATACTTGACGGTAACAGGG	CCCTGTTACCGTCAAGTATTGCGG
3072	AATTCCGGGTTTGAACGGTTGGAA	TTCCAACCGTTCAAACCCGGAATT
3073	GACACGCAATCGGGTCTATGCGAA	TTGCGATAGACCCGATTGCGTGTC
3074	GATTTTGGCGTCTCATTGCGTGAT	ATCACGCAATGAGACGCCAAAATC
3075	TGCCATAGGGAGGAAACGCAATTA	TAATTGCGTTTCCTCCCTATGGCA
3076	GAGGTGCCCATGTTAGTGGTGTCC	GGACACCACTAACATGGGCACCTC

Serial No.: 09/940,185

Filed: August 27, 2001

3077	GCTTTAGCGGTCATACGACCACCA	TGGTGGTCGTATGACCGCTAAAGC
3078	CCGCTACCAACAATCCGATTAACG	CGTTAATCGGATTGTTGGTAGCGG
3080	GAGGATCTGGCCACATCGAGAAAG	CTTTCTCGATGTGGCCAGATCCTC
3081	CTCGTTTGGTACCACGTTTTGCCG	CGGCAAAACGTGGTACCAAACGAG
3082	AATACACGCGGCGTAAACAGACGA	TCGTCTGTTTACGCCGCGTGTATT
3083	TGTCATGGGCCAAATGACAGTGGC	GCCACTGTCATTTGGCCCATGACA
3084	ACAGCACTTCCGACCCGTGTACGA	TCGTACACGGGTGCGAAGTGCTGT
3085	CTCCGTAAAGAGCACAGCTTTGCC	GGCAAAGCTGTGCTCTTTACGGAG
3086	ACGAACAGGTAGGGATCGGTCTCT	GAGGACCGATCCCTACCTGTTCTG
3087	TGGATCCACCTTACCGCGCCATCG	CGATGGCGCGGTAAGGTGGATCCA
3088	AGTATCAAATAGCGGCGCGGCAAG	CTTGCCGCGCCGCTATTTGATACT
3089	GAATTACATTGTGGATGGAGGCGG	CCGCCTCCATCCACAATGTAATTC
3090	CTCCTCGGGGAGTCGAGGAGTACG	CGTACTCCTCGACTCCCCGAGGAG
3091	AGTGTGAGCCAACTCCCACCAAT	ATTGGTGGGAGTTGGCTCGACACT
3092	AAATGACATCCGTTTGCCACAGC	GCTGTGGCCAAACGGATGTCATTT
3093	CGAATCATATCGCCATCGAACTGG	CCAGTTCGATGGCGATATGATTCTG
3094	TATAATGCACTCGCTTGGTGCGCA	TGCGCACCAAGCGAGTGCAATTATA
3095	GCCAAGCAGATGGTAATTATGGCG	CGCCATAATTACCATCTGCTTGGC
3096	CACGCGGGAAGAGCACGTAGAACT	AGTTCTACGTGCTCTTCCCGCGTG
3097	TACCCGAGAATTTGGAGAACAGCG	CGCTGTTCTCCAAATTCTCGGGTA
3098	TGACGGCAAACGTGGCATCTATC	GATAGATGCCACAGTTTGCCGTCA
3099	CACAGTGTTCCAGCCCTTGACGAT	ATCGTCAAGGGCTGGAACACTGTG
3100	TACCCGCCCACACATGAAAGTTGG	CCAACTTTCATGTGTGGGCGGGTA
3101	TGGCATATTTAAGATTCGGCGACG	CGTCGCCGAATCTTAAATATGCCA
3102	ACTGAAAAAAGAACGGGTAGCGGG	CCCGCTACCCGTTCTTTTTTTCAGT
3103	TCTGACCGCAATAGGTGGTCATTG	CAATGACCACCTATTGCGGTCAGA
3104	ACTTTTTGGCGGGCCCTCTCTCGT	ACGAGAGAGGGCCCGCCAAAAGT
3105	CTGCCCAGATCATTGCGCGATCCG	CGGATCGCGCAATGATCTGGGCAG
3106	CGGAGGTAAATGCTTTAACCGGC	GCCGGTTAAAGCATTTAACCTCCG
3107	AGGCGTCTCCAAACGTCCTTCTGT	ACAGAAGGACGTTTGGAGACGCCT
3108	AGATGCTATCCTGAGTGGGCTGC	GCAGGCCCACTCAGGATAGCATCT
3109	ACAGGGTGAAGAGACCGTGGGATG	CATCCCACGGTCTCTTACCCTGT
3110	GACTGTCTAACGGACGACACGACG	CGTCGTGTCGTCCGTTAGACAGTC
3111	AGCTGTTAGACCCGACAACCGGT	ACCGGTTGTCGGGTCCTAACAGCT
3112	TTGCGTAGTGTGGGCATTTCTCT	AGAGGAAATGCCACACTACGCAA
3113	ATGCGCGCTTCTTTCTTGATGTA	TACATCAAGGAAAGAAGCGCGCAT
3114	TTAAGGGCGTCCGCGTCTATTCAG	CTGAATAGACGCGGACGCCCTTAA
3115	ACCTTTAACTTGTACCGCGGCCC	GGGCCGCGGTACAAGTTTAAAGGT

Serial No.: 09/940,185

Filed: August 27, 2001

3116	AGGGATGCAGAGGCACCACATGTT	AACATGTGGTGCCTCTGCATCCCT
3117	CGGTTGACGTATGAGCATCCGCA	TGCGGATGCTCATACGTGGAACCG
3118	CAGGGCGATAGTCACATGGAGGTT	AACCTCCATGTGACTATCGCCCTG
3119	GCTTGACTGCCCCGTTTCATATGT	ACATATGAAACGGGGCAGTCAAGC
3120	CGAAGGGGTTGTGCAATTACCCGA	TCGGGTAATTGCACAACCCCTTCG
3121	AAAACGCACCGCAATGACAAAATT	AATTTTGTGATTGCGGTGCGTTTT
3122	ATTCTGGACAAGACCCTCAACCG	CGGTTGAGGGTCTTGTCAGGAAT
3123	CCTACCTGCCTGCTAGCGGTGAGG	CCTCACCGCTAGCAGGCAGGTAGG
3124	GCTCGTAAATGGGGAGGAATTGGA	TCCAATTCCTCCCCATTTACGAGC
3125	ACATGAAAACAGGCTCAATTGGGG	CCCCAATTGAGCCTGTTTTCATGT
3126	GTTCCGCACATGGATTGAGGTCTC	GAGACCTCAATCCATGTGCGGAAC
3127	GGCACCCAATACCACGAAGAAGAA	TTCTTCTTCGTGGTATTGGGTGCC
3128	AGGGGCATTTCGAACTCCATCTTT	AAAGATGGAGTTCGAAATGCCCT
3129	CATCATCACAAAGGAACGTCGGTG	CACCGACGTTCCCTTTGTGATGATG
3130	TAAAGACCCACCGTCAGCAGCAGC	GCTGCTGCTGACGGTGGGTCTTTA
3131	CCCCAGGCGTAATGCACCACATAG	CTATGTGGTGCATTACGCCTGGGG
3132	GCAGGTCGAACGCTAGTGTTGAA	TTCAACCACTAGCGTTTCGACCTGC
3133	GGAACCTAGGAGTTCACGTCGCCA	TGGCGACGTGAACTCCTAAGTTCC
3134	GCAGATACGGCTAGCTGAGGTGGC	GCCACCTCAGCTAGCCGTATCTGC
3135	CACAGGCCTAGAGCCTCGGCGTTC	GAACGCCGAGGCTCTAGGCCTGTG
3136	GTTTTGCGCGCATGAGGTTCAATTA	TAATGAACCTCATGCGCGCAAAAC
3137	TTGCGCCTGATGCCAGCAGTACTA	TAGTACTGCTGGCATCAGGCGCAA
3138	GATATCAGGCTTTCCCACTGCCGC	GCGGCAGTGGGAAAGCCTGATATC
3139	TGCGCGGAGACGGAGATCTATGAA	TTCATAGATCTCCGTCTCCGCGCA
3140	CATTGGTGTTGGCTGAGAGTGGAC	GTCCACTCTCAGCCAACACCAATG
3141	GTCGGCACTTGGGCACCATTAATA	TATTAATGGTGCCCAAGTGCCGAC
3142	ATCGATCGGTGTCTCACCACGGAG	CTCCGTGGTGAGACACCGATCGAT
3143	CGTAGCCTTCCACCGTGTGCATAG	CTATCGACACGGTGGAAGGCTACG
3144	CGCTCTCCGTCTGAGGAAAAGGGG	CCCCTTTTCTCAGACGGAGAGCG
3145	TCGCCCCAGCCAAGGATATATTGC	GCAATATATCCTTGCTGGGGCGA
3146	TCTCTTGCAAGGAACTCTGCCGTC	GACGGCAGAGTTCCTTGCAAGAGA
3147	GTCTTGGACAGACGGAGGGTGTTA	TAACACCCTCCGTCTGTCCAGGAC
3148	GCCAAATTAAGCGGGCTCGTAATC	GATTACGAGCCCGCTTAATTTGGC
3149	CCATTTGTTGACCGATGGGAGGGG	CCCCTCCCATCGGTCAACAAATGG
3150	TGGTCAAAGAGCACGATCCAGGA	TCCTGGATCGTGCTCTTTTGACCA
3151	CGCTACTAAGACGCCCTGTCCAC	GTGGACAGGGGCGTCTTAGTAGCG
3152	CATACCTCCCGCTTGGATTCACTG	CAGTGAATCCAAGCGGGAGGTATG
3153	CCGCGGAAGGAATGTCATCTACAA	TTGTAGATGACATTCCTTCCGCGG

Serial No.: 09/940,185

Filed: August 27, 2001

3154	CACGGGACATTCATTCACAGGACG	CGTCCTGTGAATGAATGTCCCGTG
3156	AGGAGTCACCCACTCCGCACAAAA	TTTTGTGCGGAGTGGGTGACTCCT
3157	TCATGACAGCGCACCCCATACCAT	ATGGTATGGGGTGCGCTGTCATGA
3158	GGTAGGGGACTATCGATCGTGCTG	CAGCACGATCGATAGTCCCCTACC
3159	ATGTCTCACTACCGCACGTAGCGG	CCGCTACGTGCGGTAGTGAGACAT
3161	ACGGAGGAGCGACTCGTTCGCTGC	GCAGCGAACGAGTCGCTCCTCCGT
3162	GAAGTCTGTGCGCGGTGGACGGAC	GTCCGTCCACCGGCGACAGACTTC
3163	CCGTAACGTGTATTCCGACGAGCG	CGCTCGTCCGAATACAGTTACGG
3164	CGTGGAAGCGACTTAACCAATCGT	ACGATTGGTTAAGTCGCTTCCACG
3165	GGCATGGGCTATGCCTCACACTAG	CTAGTGTGAGGCATAGCCCATGCC
3166	GGGTCGTATTTACGATCGTTCGT	ACGAACGATGCTGAAATACGACCC
3167	AATGGTCGCGCAAACCGTAAGAAT	ATTCTTACGTTTTGCGCGACCATT
3168	CTGGATTCCGGTACGTCCAACGTTT	AAACGTTGGACGTACCGAATCCAG
3169	CGCAAAAACACCCGTAGCCAAGAA	TTCTTGGCTACGGGTGTTTTTGCG
3170	TATGGATACGCTTTTGGACTGGGC	GCCCAGTCCAAAAGCGTATCCATA
3171	GCTTCAAACGCGCTTCACGCTGGT	ACCAGCGTGAAGCGCGTTTGAAGC
3172	TACAGCCCGCTCTACCTCGCCACC	GGTGGCGAGGTAGAGCGGGCTGTA
3173	TCAACCGATGTCAAATGCACGTT	AACGTGCATTTTGACATCGGTTGA
3174	AGCTCTCTCCGAAGTAGGGCGGTA	TACCGCCCTACTTCGGAGAGAGCT
3175	ACGCACACATGGAGACTTGGCTCC	GGAGCCAAGTCTCCATGTGTGCGT
3176	TTCTTGAAAGCTAGTGGGGCGCTA	TAGCGCCCCACTAGCTTTCAAGAA
3177	CAATCACGGCTGGGCTATTCTGTG	CACAGAATAGCCCAGCCGTGATTG
3178	GTGGCGACCCGTCGGTGAAAGAGT	ACTCTTTCACCGACGGGTGCCCAC
3179	CGTCGAATGCCGAACCAGTTAAGT	ACTTAACTGGTTCGGCATTTCGACG
3180	TGCGTATTTGCATGCTCACAGCTG	CAGCTGTGAGCATGCAAATACGCA
3181	CGCAGTTGGTTTGTGCACGGCTGC	GCAGCCGTGCACAAACCAACTGCG
3182	GTTTTTCCGTGAAAACCTGGCATCG	CGATGCCAGTTTTACGGAAAAAC
3183	ACAGGTTCCCTCCACCACGATTTGA	TCAAATCGTGGTGGAGGAACCTGT
3184	CTAGCGCGCTTTTAGGTCCTTGCG	CGCAAGGACCTAAAAGCGCGCTAG
3185	CAAAATCAAAGGGATCAACCGGTG	CACCGGTTGATCCCTTTGATTTTG
3186	AACGTAACCCCAGTGAGTCAGGCA	TGCCTGACTCACTGGGGTTACGTT
3187	TCAACCGGTGCACTTTAGAACGCC	GGCGTTCTAAAGTGACCCGGTTGA
3188	ATCGCAAAGTTGCAGGCGAATACT	AGTATTCGCCTGCAACTTTGCGAT
3189	ATATGTCCCTGGGTGCTGCACAAC	GTTGTGCAGCACCCAGGGACATAT
3190	TGGCACTTTGTAGTGCTGCGGTGG	CCACCGCAGCACTACAAAGTGCCA
3191	ACGCACGACGTCCTTCTAAGCTCG	CGAGCTTAGAAGGACGTCGTGCGT
3192	CCCACGTGCACTATAGGGATTTTCG	CGAAATCCCTATAGTGACAGTGGG
3193	CCGCGCTTGGTCAGTCATCCTTGC	GCAAGGATGACTGACCAAGCGCGG

A9
Cont'd

Serial No.: 09/940,185

Filed: August 27, 2001

3194	AGCGGCTCAGGGAATAACAACAGG	CCTGTTGTTATTCCCTGAGCCGCT
3195	ACAACGCGATCGGAGGCAACCAGT	ACTGGTTGCCTCCGATCGCGTTGT
3196	AGCAATTGCCTCCGTAGAAACCCA	TGGGTTTCTACGGAGGCAATTGCT
3197	GAGTCGTGGCATCGCCTGCTATCG	CGATAGCAGGCGATGCCACGACTC
3198	TCTATGCAAATACTGCGCTTGCGA	TCGCAAGCGCAGTATTTGCATAGA
3199	TCAGCTTAAGTTACGGTGTGGCCG	CGGCCACACCGTAACTTAAGCTGA
3200	TCCAAGGTCGAACAGGGATCAGAA	TTCTGATCCCTGTTGACCTTGGA
3201	GTTAGGCTGGCGTCAATAGCGCTT	AAGCGCTATTGACGCCAGCCTAAC
3202	GGTGTCTATAAGGAAGAGGGCATCG	CGATGCCCTCTTCCTTATGACACC
3203	CCGGCGGGCTAGATCAATATTTCT	AGAAATATTGATCTAGCCCGCCGG
3204	CTAACGTCAAGTTTTACGCCCCGA	TCGGGGCGTAAAACTTGACGTTAG
3205	GCAGCACAGTTTTCCGATTTGCGG	CCGCAAATCGGAAAACTGTGCTGC
3206	CGCACGCAAGGGGAGGGATGACTG	CAGTCATCCCTCCCCTTGCGTGCG
3207	CGGGGCCGAAAAGGACGTCAACAAG	CTTGTGACGTCCTTTTCGGCCCCG
3208	TTCTCCAACACGGCTAACC GG TAG	CTACCGGTTAGCCGTGTTGGAGAA
3209	TTACAGCCTGGCCCGAGGTAGTTG	CAACTACCTCGGGCCAGGCTGTAA
3210	TTTCGGGCAGCATGAGTTATCGAA	TTCGATAACTCATGCTGCCCGAAA
3211	CTACTGGACGCCCTGCTTCGAAGT	ACTTCGAAGCAGGGCGTCCAGTAG
3212	GGTCGTCCGACGTGAAAAGACCAA	TTGGTCTTTTCACGTCGGACGACC
3213	GTTTTCGAGCTCTTTCTCCGCAGG	CCTGCGGAGAAAAGAGCTCGAAAAC
3214	GCGTGAAGGTACCCAGTGTACACAG	CTGTGACACTGGGTACCTTCACGC
3215	TTTCTGAACGCTTCGACGCAACAC	GTGTTGCGTCGAAGCGTTCAGAAA
3216	TGCTAATAAGCACGCCTAGCCCGT	ACGGGCTAGGCGTGCTTATTAGCA
3217	AAATTAATTGTGGTGGCTCCGGCG	CGCCGGAGCCACCACAATTAATTT
3218	TTACAATCCTCGGGCTCACTGACA	TGTCAGTGAGCCCGAGGATTGTAA
3219	GCTGAAGGACAAGGCGTGGGCAAC	GTTGCCACGCCTTGTCCTTCAGC
3220	GGGATAGGAGACCCTCGCAATGGT	ACCATTGCGAGGGTCTCCTATCCC
3221	TTGCAGTACGTCCTTGCGCATGAA	TTCATGCGCAAGGACGTACTGCAA
3222	TTGATCACTGGATTGGGTGCGAAC	GTTTCGCACCCAATCCAGTGATCAA
3223	TCTGCAGACGTTGCGAGAGATGAT	ATCATCTCTCGCAACGTCTGCAGA
3224	AGTCTAGCAGGGATCGAAGCGGAT	ATCCGCTTCGATCCCTGCTAGACT
3225	GGGGTCCCGCAACAATAATGAAG	CTTCATTAGTTGTTGCGGGACCCC
3226	CAACCTCTTATGTGGTGTGCGCGA	TCGCGCACACCACATAAGAGGTTG
3227	CTCGCTGGGTTGCTGGAGTAGCAC	GTGCTACTCCAGCAACCCAGCGAG
3228	CGTTGTATTGTGCAACGCGAAGTT	AACTTCGCGTTGCACAATACAACG
3229	GGGCTCAAAGTGCTGAGTCGAAA	TTTCGACTCAGGCACTTTGAGCCC
3230	CTGCTGTGCCCTCTCAGTGAGAGC	GCTCTCACTGAGAGGGGCACAGCAG
3231	CGGACGTA CTGTT CGGAGTCCTCA	TGAGGACTCCGAACAGTACGTCCG

Serial No.: 09/940,185

Filed: August 27, 2001

AG
Cont'd

3232	GTATACCACCATACCGGGACCGCA	TGCGGTCCCGGTATGGTGGTATAC
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Please replace the table starting on page 217, line 1, with the following rewritten table:

TABLE 3

Seq. ID No.	Decoder Sequence (5'-3')	Probe Sequence (5'-3')
1	TTCGCCGTCGTGTAGGCTTTTCAA	TTGAAAAGCCTACACGACGGCGAA
18	GTTCCCAGTGAAGCTGCGATCTGG	CCAGATCGCAGCTTCACTGGGAAC
19	TACTTGGCATGGAATCCCTTACGC	GCGTAAGGGATTCCATGCCAAGTA
20	ACTAGCATATTTACAGGGACCGGC	GCCGGTGCCCTGAAATATGCTAGT
21	GAACGGTCAATGAACCCGCTGTGA	TCACAGCGGGTTCATTGACCGTTC
22	GCGGCCTTGTTCAATATGAATCG	CGATTCATATTGAACCAAGGCCGC
23	GATCGTTAGAGGGACCTTGCCCGA	TCGGGCAAGGTCCCTCTAACGATC
24	TGGACCTAGTCCGGCAGTGACGAA	TTCGTCACTGCCGGACTAGGTCCA
25	ATAAACTACCCAGGACGGGCGGAA	TTCCGCCCGTCCTGGGTAGTTTAT
26	CATCGGTTCCGCGCCAATCCAGATA	TATCTGGATTGGCGCGAACCAGTG
27	GTCGGGCATAGAGCCGACCACCCT	AGGGTGGTCGGCTCTATGCCCCGAC
28	CTTGGGTCATGATTCACCGTGCTA	TAGCACGGTGAATCATGACCCAAG
29	TGCCTAACGTGCTAATCAGCAGCG	CGCTGCTGATTAGCACGTTAGGCA
30	CGCATGTTGGAGCATATGCCCTGA	TCAGGGCATATGCTCCAACATGCG
31	AGCCACTGCATCAGTGCTGTTCAA	TTGAACAGCACTGATGCAGTGGCT
32	GGTTGTTTTGAGGCGTCCCACACT	AGTGTGGGACGCTCAAACAACC
33	TCGACCAAGAGCAAGGGCGGACCA	TGGTCCGCCCTTGCTCTTGGTCGA
34	GACATCGCTATTGCGCATGGATCA	TGATCCATGCGCAATAGCGATGTC
35	GAAATACGAAGTCTGCGGGAGTCG	CGACTCCCGCAGACTTCGTATTTT
36	TGTCATGAATGATTGATCGCGCGA	TCGCGCGATCAATCATTGATGACA
37	ATATCGGGATTTCGTTCCCGGTGAA	TTACCGGGAACGAATCCCGATAT
38	GCGAGCGTACCGAAGGGCCTAGAA	TTCTAGGCCCTTCGGTACGCTCGC
39	TTACCGGCAGCGGACTTCCGAATT	AATTTCGAAGTCCGCTGCCGGTAA
40	GTAATCGAGAGCTGCGCGCCGTCT	AGACGGCGCGCAGCTCTCGATTAC
42	CCTGTTAGCGTAGGCGAGTCGATC	GATCGACTCGCCTACGCTAACAGG
43	TAGCGGACCGGCAGAATGAGTTCC	GGAACTCATTCTGCCGGTCCGCTA
44	GGTACATGCACTACGCGCACTCGG	CCGAGTGCGCGTAGTGCATGTACC
45	AATTCATCTCGGACTCCCGCGGTA	TACCGCGGGAGTCCGAGATGAATT
46	GCCAAATCTGGATTGGCAGGAATG	CATTCCTGCCAATCCAGATTGCGC

A10

Serial No.: 09/940,185
 Filed: August 27, 2001

A10

47	TGCATTTTCGGTTGAGGCACATCC	GGATGTGCCTCAACCGAAAATGCA
48	CCGCTCAATTCACCATGCTTCGCT	AGCGAAGCATGGTGAATTGAGCGG
49	CTCGGAAAGGTGCAACTTTGGTGT	ACACCAAAGTTGCACCTTTCCGAG
50	AATTCGACCAGCAGAACGTCCCAT	ATGGGACGTTCTGCTGGTCAATT
51	GCCAGAGTCTCAACCTCACGGGAT	ATCCCGTGAGGTTGAGACTCTGGC
52	CCAACAACTGGAACGGGAACCCGC	GCGGGTTCCCGTTCCAGTTGTTGG
53	GAGAACTGATCGCTGAGGGGCATG	CATGCCCCTCAGCGATCAGTTCTC
54	GGCACACTAGACTTGTGGCACCGA	TCGGTGCCACAAGTCTAGTGTGCC
56	TCACATCCAAATATGGTCCGCGAA	TTGCGGACCATATTTGGATGTGA
57	GTCTGCCGGTGTGACCGCTTCATT	AATGAAGCGGTCACACCGGCAGAC
58	CATCGCAGAGCATAAACACCCTCA	TGAGGGTGTTTATGCTCTGCGATG
59	GTTGGTATCTATGGCAGAGGCGGA	TCCGCCTCTGCCATAGATACCAAC
60	ACGAGGTGCCGCTGAGGTTCCATT	AATGGAACCTCAGCGGCACCTCGT
61	GGAATGAGTGGACCCAGGCACATT	AATGTGCCTGGGTCCACTCATTCC
62	TGTCAATATGCGTCCGTGTCTGTCT	AGACGACACGGACGCATATTGACA
63	TGATGAGCCTCAGGGTACGAGGCA	TGCCTCGTACCCTGAGGCTCATCA
64	CACCGCGGTGTTCTACAGAAATGA	TCATTCTGTAGGAACACCGCGGTG
65	TTGTTGCCAATGGTGTCCGCTCGG	CCGAGCGGACACCATTGGCAACAA
66	TTAACCTGCGTCTGCCCTTTCTCT	AGGAAAGGGGCAGACGCAGGTAA
67	AGGCGCGTTCTGCCTTAGTGACG	CGTCACTAAGGCAGGAACGCGCCT
68	TAGGGCGATGGCACGAAGCTTCAA	TTGAAGCTTCGTGCCATCGCCCTA
69	TGCATAGAGCCAAAGTCGGCGATG	CATCGCCGACTTTGGCTCTATGCA
70	TTGAGAGGCAGGTGGCCACACGGA	TCCGTGTGGCCACCTGCCTCTCAA
71	TCCGCATTGTGAGAAAAACGAGC	GCTCGTTTTTCTCACAATGCGGA
72	GGCGGTTTCCGTAGCTATAGGTGC	GCACCTATAGCTACGGAAACCGCC
73	GGTGAAAATTCGTAGCCACGGGC	GCCCGTGGCTACGAAATTTTACC
74	CCGACGGAGGATGAAGACAATCAC	GTGATTGTCTTCATCCTCCGTCGG
75	CCAGTTTGGCCCAATTCGCCAAAA	TTTTGGCGAATTGGGCCAAACTGG
76	GGATCTATTAGGCCGTGCGCACAG	CTGTGCGCACGGCCTAATAGATCC
77	CGGATGTCACCGTTTGGACTTTCA	TGAAAGTCCAAACGGTGACATCCG
78	ATCGCAAATCCTGCTCGTCCCTAA	TTAGGGACGAGCAGGATTTGCGAT
79	CAGGGCATGCAATAATCGAGGTTT	GAACCTCGATTATTGCATGCCCTG
80	CATGCGTTGATATATGGGCCCAAG	CTTGGGCCCATATATCAACGCATG
81	CAGCTGCAGCTTGTGACCAACCAC	GTGGTTGGTCACAAGCTGCAGCTG
82	TTGTATGTCTGCCGACCGGCGACC	GGTCGCCGGTCGGCAGACATACAA
83	GATGGCGCCCGTTGATAGGTATGG	CCATACCTATCAACGGGCGCCATC
84	ATGAGAATCGCCGGCAATCTGCTA	TAGCAGATTGCCGGCGATTCTCAT
85	ATTTGCACTGACCGCAGGCTCGTG	CACGAGCCTGCGGTCAGTGCAAAT

Serial No.: 09/940,185
 Filed: August 27, 2001

A 10

86	CAGGGAGAACGGTTAAGTTCCCGT	ACGGGAACCTTAACCGTTCTCCCTG
87	AGGCCGGCGATCGAGGAGTTTGGT	ACCAAACCTCCTCGATCGCCGGCCT
88	ACACGGTGGTCTCTGATAGCGACC	GGTCGCTATCAGAGACCACCGTGT
89	GTGCAACGCCGAGGACTTCCATCA	TGATGGAAGTCCTCGGCGTTGCAC
90	TCGGTGCTGATAGCCATTCCGAT	ATCGGAATGGCTATCAGGCACCGA
91	TGAAATACCACACAGCCAATTGGC	GCCAATTGGCTGTGTGGTATTTCA
92	GCATCGTGATGACTGCCGCGA	TCGCGGCAGTCATGTACACGATGC
93	CAGTGTCTAACGGCGCGCGTGAA	TTCACGCGCGCCGTTAGAACACTG
94	CGCTTGCAACGTTGCACCTACTCT	AGAGTAGGTGCAACGTTGCAAGCG
95	CGAAAACTAGTGGGCTCGCCGCG	CGCGGCGAGCCCACTAGTTTTTCG
96	CTTTCAGGGGAAGTGCCGGAGTCG	CGACTCCGGCAGTTCCCCTGAAAG
97	TTGTGGCCTTCTTGTAAGGCACG	CGTGCCTTTACAAGAAGGCCACAA
98	TCCACGAACGGCGACCCGTTGTCT	AGACAACGGGTCGCCGTTCTGTGA
99	CGACCTTGACGAAACCTAACGAG	CTCGTTAGGTTTCGTGCAAGGTCG
100	GTGCAGCTTCACGAGCCAGCCTGA	TCAGGCTGGCTCGTGAAGCTGCAC
101	CGCTTTCGTGCGAATAGACGATGA	TCATCGTCTATTTCGCACGAAAGCG
102	TGCGCTTACAGGCTCCTAGTGGTC	GACCACTAGGAGCCTGTAAGCGCA
103	CACGCGCTTAGTCGCGATCGCATA	TATGCGATCGCGACTAAGCGCGTG
104	CGGAGGGAGGGAGCTAGCCTTCGA	TCGAAGGCTAGCTCCCTCCCTCCG
105	GCATCCGGCCTGTTGATGACGCCT	AGGCGTCATCAACAGGCCCGATGC
106	AGGCCAATCGATCTTATTGCCGAG	CTCGGCAATAAGATCGATTGGCCT
107	CCTTCCAATGATTGCATACGCCCA	TGGGCGTATGCAATCATTGGAAGG
108	AACACTTGATCAGGCGGGTCTGTCT	AGACGACCCGCCTGATCAAGTGTT
109	TGGAATCAAGGCCGTAAAGGACAG	CTGTCCTTTACGGCCTTGATTCCA
110	GCTCCCGTAACCTGTCCACCAAGTG	CACTGGTGGACAGGTTACGGGAGC
111	AGTGGTGAATGGCCGCTACCCTGA	TCAGGGTAGCGGCCATTCACTACT
112	TGTTGAAGCGAGCTAAAACGGCCA	TGGCCGTTTTAGCTCGCTTCAACA
113	CAGCGCTCCAGAATTGACAGCAAT	ATTGCTGTCAATTCTGGAGCGCTG
2	TTCGAAGCGCACGTCCCTTTTCAA	TTGAAAAGGGACGTGCGCTTCGAA
3	AACGCGTGGGGAATGGGACATCAA	TTGATGTCCCATTTCCCACGCGTT
117	CACGAGATACCGGCGTAAGGGTGG	CCACCCTTACGCCGGTATCTCGTG
118	CTACGGCAAACGTGTGGAATGGGT	ACCCATTCCACACGTTTGCCGTAG
119	GTAGGGCGATGACGGGCGAACTAC	GTAGTTCGCCCGTCATCGCCCTAC
120	AATCGACCTCCGCACACATTCGCA	TGCGAATGTGTGCGGAGGTCGATT
121	GAGTCAGCATGGCGGCGGAGATTC	GAATCTCCGCCGCCATGCTGACTC
122	AGATAAAGACGCTGGCAACACGGG	CCCGTGTTGCCAGCGTCTTTATCT
123	GGTACCTCAACGCGAACCCTTGT	ACAAGTGGTTCGCGTTGAGGTACC
124	AAGCGATGGCTACCCAAGAGCGAT	ATCGCTCTTGGGTAGCCATCGCTT

Serial No.: 09/940,185

Filed: August 27, 2001

125	AGAGCTTATGCAGAACCAGGCGCC	GGCGCCTGGTTCTGCATAAGCTCT
126	ATCGGTCTCACGCAGGGTTGGATA	TATCCAACCCTGCGTGAGACCGAT
127	TAGGTTGCCCGCCAGAAGAAACAT	ATGTTTCTTCTGGCGGGCAACCTA
128	CGGTGCTGTTGCAAAGCCTGTAG	CTACAGGCTTTTGCAACAGCACCG
129	TGATGAAAGTTTGCGGCAGGACAC	GTGTCCTGCCGCAAACCTTTCATCA
130	GTTGAGTGCAGGATGCAGCGATAG	CTATCGCTGCATCCTGCACTCAAC
131	AACATTGCGCGGTCCACCAGGGTT	AACCCTGGTGGACCGCGCAATGTT
132	GGGCAGTTAGAGAGGGGCCAGAAGT	ACTTCTGGCCCTCTCTAACTGCCC
133	TCGAGCTGGTCCCCGTGAACGTGT	ACACGTTACGGGGACCGAGCTCGA
134	GTCTTGGGGGCCGCTTAGTGAAAA	TTTTCACTAAGCGGCCCCCAAGAC
135	ACTGTTGGCTTGCTCTCATGTCCA	TGGACATGAGAGCAAGCCAACAGT
136	AGGACCATTGGAAGGCGAAGATA	TATCTTCGCCTTCCGAATGGTCCT
137	CTTGGGAGGCATCCGCTATAAGGA	TCCTTATAGCGGATGCCTCCCAAG
138	AATAAACGGAACGCACCGCTACAG	CTGTAGCGGTGCGTTCCGTTTATT
139	TTGTACGTGCGGTCCCATAAGCA	TGCTTATGGGGACCGCACGTACAA
140	CGCACCAAACAGAGTTTCCAGAC	GTCTGGGAAACTCAGTTTGGTGCG
141	ACCTGATCGTTCCCCTATTGGGAA	TTCCCAATAGGGGAACGATCAGGT
142	GGAACAGAGGCGAGGGGACTGAGC	GCTCAGTCCCCTCGCCTCTGTTCC
143	CCCTGCCTTGGCGTGTGCGCTTAT	ATAAGCCGACACGCCAAGGCAGGG
144	ACTCTGACACGCCAACTCCGGAAG	CTTCCGGAGTTGGCGTGTGAGAGT
145	CTGACGGTTTTTCATTGCGCGTGCC	GGCACGCCGAATGAAAACCGTCAG
146	TGCGGTGGTTCATTGGAGCTGGCC	GGCCAGCTCCAATGAACCACCGCA
147	GCATGGCCAACTAGTGAAGTCGCAA	TTGCGAGTCACTAGTTGGCCATGC
148	AGGCCGTAAAGCGAATCTCACCTG	CAGGTGAGATTGCTTTACGGCCT
149	CGAATATTATGCCGAGAATCCGCG	CGCGGATTCTCGGCATAATATTCG
150	ACAGACGAGCTCCCAACCACATGA	TCATGTGGTTGGGAGCTCGTCTGT
151	GGACGGTTTGTGCTGGATTGTCTG	CAGACAATCCAGCACAAACCGTCC
152	AAAGGCTATTGAGTTGGTTGGGCG	CGCCCAACCAACTCAATAGCCTTT
153	GATGGCCTATTGCGAGATCGGGCC	GGCCCGATCTCCGAATAGGCCATC
154	GATCCAGTAGGCAGCTTCATCCCA	TGGGATGAAGCTGCCTACTGGATC
155	AATAACTCGCGCGGGTATGCTTCT	AGAAGCATACCCGCGCGAGTTATT
156	GGAGGAGGTTTGTCTCGGAAAGCA	TGCTTTCCGAGACAAACCTCCTCC
157	CTTTGGTATGGCACATGCTGCCCG	CGGGCAGCATGTGCCATACCAAAG
158	AGAAAGGCTCGAGCAACGGGAACT	AGTTCCCGTTGCTCGAGCCTTTCT
159	AATCTACCGCACTGGTCCGCAAGT	ACTTGCGGACCAAGTGCGGTAGATT
160	CGTGGCGGCCACAGTTTTTGGAGG	CCTCCAAAACTGTGGCCGCCACG
161	TTGCAGTTCAATCCATACGCACGT	ACGTGCGTATGGATTGAACTGCAA
162	GGCCCAAAGCCCCAGACCATTTTA	TAAATGGTCTGGGGCTTTGGGCC

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Serial No.: 09/940,185

Filed: August 27, 2001

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163	CGCCTGTCTTTGTCTCCGGACAAT	ATTGTCCGGAGACAAAGACAGGCG
164	TGAGGCAACAGGGGCCAAAACTA	TAGTTTTTGGCCCCCTGTTGCCTCA
165	AGCGGAAGTAGTCCTCGGCTCGTC	GACGAGCCGAGGACTACTTCCGCT
166	GGCCCCAAGGCTTAGAGATAGTGG	CCACTATCTCTAAGCCTTGGGGCC
167	GCACGTGAAGTTTAACCGCGATTG	GAATCGCGGTTAACTTCACGTGC
168	AGCGGCAGAAACGTTCTTGACGG	CCGTCAAGGAACGTTTCTGCCGCT
169	TCGTGAGCAGACGAGATTGCACG	CGTGCAATCTCGTCTGCTCGACGA
170	TCTTTGCCGCGTAACTGACTGCTT	AAGCAGTCAGTTACGCGGCAAAGA
171	TTTATGTGCCAAGGGGTAAACCGA	TCGGTTAACCCCTTGGCACATAAA
172	TGTTACTGTGGTTCACGGCAGTCC	GGAATGCCGTGAACCACAGTAACA
173	CGCGCCTCGCTAGACCTTTTATTG	CAATAAAAGGTCTAGCGAGGCGCG
174	ACAAATGCGTGAGAGCTCCCACT	AGTTGGGAGCTCTCACGCATTTGT
175	CGCGCAGATTATAGACCCGAATGT	ACATTCGGGTCTATAATCTGCGCG
176	CAAATAACGCCGCTGAATCGGCGT	ACGCCGATTCAGCGGCGTTATTTG
177	CCTTCGTGCATCGGTGATGATGTT	AACATCATCACCGATGCACGAAGG
178	TGAACACGAGCAACACTCCAACGC	GCGTTGGAGTGTTGCTCGTGTTCA
179	CAGCAGATCCTTCGTAGCGGTCGT	ACGACCGCTACGAAGGATCTGCTG
180	GGAACCTGGTGAGTTGTGCCTCAT	ATGAGGCACAACCTACCAGGTTCC
181	TCATAAGCGACAATCGCGGGCTTA	TAAGCCCGCGATTGTGCTTATGA
182	CCCAACGTCACTGAAGCTCACAGT	ACTGTGAGCTTCAGTGACGTTGGG
183	TGTCAGAGCCCGCGACTCAGACGG	CCGTCTGAGTCGCGGGCTCTGACA
184	TACACGAAGCCTCTCCGTGGTCCA	TGGACCACGGAGAGGCTTCGTGTA
185	CTCAGAAGTCCTCGGCGAACTGGG	CCCAGTTCGCCGAGGACTTCTGAG
186	ATCCTTTTATCTACTCCGCGGCGA	TCGCCGCGGAGTAGATAAAAGGAT
187	AGGCGTGCAGCAACAGGATAAACC	GGTTTATCCTGTTGCTGCACGCCT
188	ACTCTCGAGGGAGTCTCTGGCACA	TGTGCCAGAGACTCCCTCGAGAGT
189	TTGCCAGGTCCATCGAGACCTGTT	AACAGGTCTCGATGGACCTGGCAA
190	TCCACTATAACTGCGGGTCCGTGT	ACACGGACCCGCAATTATAGTGGA
191	GCCCAGTCGGCTCTAACAAGTTG	CGAACTTGTTAGAGCCGACTGGGC
192	CGGAACGGATAATCGGCGTCAGGT	ACCTGACGCCGATTATCCGTTCCG
193	TAAAATAAGCGCCTGGCGGGAGGA	TCCTCCCGCCAGGCGCTTATTTTA
194	GCGCACTCGTGAAACCTTTCTCGC	GCGAGAAAGGTTTCACGAGTGCGC
195	AGTTTGCCAGGTACTGGCAAGTGC	GCACTTGCCAGTACCTGGCAAAC
196	ACAACGAGGGATGTCCAGCGGCAT	ATGCCGCTGGACATCCCTCGTTGT
197	TTCGCAGCACCCGCTAGGTACAGT	ACTGTACCTAGCGGGTGCTGCGAA
198	TAACCCGATTTTTCGACTCTGCC	GGCAGAGTCGCAAAAATCGGGTTA
199	CGTCGCATTGCAAGCGTAGGCTTG	CAAGCCTACGCTTGCAATGCGACG
200	GAGCTGACGTCACCATCAGAGGAA	TTCCTCTGATGGTGACGTCAGCTC

Serial No.: 09/940,185

Filed: August 27, 2001

201	GGAGGCTGGGGGTCGCGCTTAAGT	ACTTAAGCGCGACCCCCAGCCTCC
202	TTGTGGGAACCGCACTAGCTGGCT	AGCCAGCTAGTGCGGTTCCACAA
203	CCCTCGCACTGTGTTCAACCCTCTT	AAGAGGGTGAACACAGTGCAGGG
204	TCATTGACTCGAATCCGCACAACG	CGTTGTGCGGATTGAGTCAATGA
205	ACAGGGGTTGGCCTTCGTACGTAC	GTACGTACGAAGGCCAACCCTGT
206	AGGCCGTGCAACATCACACAGGAT	ATCCTGTGTGATGTTGCACGGCCT
207	GGGCCGTGGTCACGTAATATTGGC	GCCAATATTACGTGACCACGGCCC
208	GCGCGGACATGAAACGACAAGGCC	GGCCTTGTCGTTTCATGTCCGCGC
209	CTTATTGGGTGCCGGTGTCGGATT	AATCCGACACCGGCACCCAATAAG
210	GGGGCGGTTACCAAAAAATCCGAT	ATCGGATTTTTTGGTAACCGCCCC
4	CCGTCGCATACCGGCTACGATCAA	TTGATCGTAGCCGGTATGCGACGG
5	ATGGCCGTGCTGGGGACAAGTCAA	TTGACTTGTCCCAGCACGGCCAT
213	ACGAAAAAAGTGTGCGGATCCCCT	AGGGGATCCGCACACTTTTTTCGT
214	CCAAGTACACCGCACGCATGTTTA	TAAACATGCGTGCGGTGTACTTGG
215	ATCGTGCGTGAGTGTGCGCATCTA	TAGATGCGACACTCCACGCACGAT
216	TCCAGATACCGCCCCGAACTTTGA	TCAAAGTTCGGGGCGGTATCTGGA
217	TCTGCTGGCAGCACGTGAAGTGGC	GCCACTTCACGTGCTGCCAGCAGA
218	TTGAAATTGCTCTGCCGTCACTCA	TGACTGACGGCAGAGCAATTTCAA
219	AGTCAGGCGAGATGTTTCAGGCAGC	GCTGCCTGAACATCTCGCCTGACT
220	ACAAGCCGACGTTAAGCCCGCCCA	TGGGCGGGCTTAACGTGCGCTTGT
221	CCCTAATGAGGCCAGTAACCTGCA	TGCAGGTTACTGGCCTCATTAGGG
222	GTGAGACACACATCCCCTCCAATG	CATTGGAGGGGATGTGTGTCTCAC
223	CGACGGATGCAGAGTTCAGTGGTC	GACCACTGAACTCTGCATCCGTCG
224	CCCGCATGCCTGGCGGTATTACAA	TTGTAATACCGCCAGGCATGCGGG
225	TTAGCAAAGCGGCGCCGTTAGCAA	TTGCTAACGGCGCCGCTTTGCTAA
226	CCCGACACGGGTCAGCGTAATAAT	ATTATTACGCTGACCCGTGTGCGG
227	GCGACGGCCCTGAGGTATGTCGTC	GACGACATACCTCAGGGCCGTCGC
228	CAAAAGTGTGTTCCCTTGCGCTTG	CAAGCGCAAGGGAACACACTTTTG
229	TCTCGAAGCACAGCCCGGTTATTG	CAATAACCGGGCTGTGCTTCGAGA
230	ATGCTAACCGTTGGCCATGGAAT	AGTTCCATGGCCAACGGTTAGCAT
231	CTTGCGGAGTGTTAGCCCAGCGGT	ACCGCTGGGCTAACACTCCGCAAG
232	TGCTCCCTAGGCGCTCGGAGGAGT	ACTCCTCCGAGCGCCTAGGGAGCA
233	CCAATGCCTTTGAGTAAGCGATGG	CCATCGCTTACTCAAAGGCATTGG
234	AGCAGATAACGTCCCAATGACGCC	GGCGTCATTGGGACGTTATCTGCT
235	TTGACCATTACGTGTTGCGCCCAT	ATGGGCGCAACACGTAATGGTCAA
236	TCGCGTATTTGCGGAATTCGTCTG	CAGACGAATTCGCAAATACGCGA
237	CTGCGTGTCAACAATGTCCCGCAG	CTGCGGGACATTGTTGACACGCAG
238	TCTGGTGCCACGCAAGGTCCACAG	CTGTGGACCTTGCGTGGCACCAGA

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Serial No.: 09/940,185

Filed: August 27, 2001

239	CTCCGGGAGGTCACCTAATTGCGG	CCGCAATTAAGTGACCTCCCGGAG
240	TTTTCGTGATTGCCCGGAGGAGGC	GCCTCCTCCGGGCAATCACGAAAA
241	TCGGGATGTAGCTGGGGCTACCGG	CCGGTAGCCCCAGCTACATCCCGA
242	CGAGCCAACGCAAACACGTCCTTG	CAAGGACGTGTTTGCGTTGGCTCG
243	GCAAAGCCTTTGTGGGGCGGTAGT	ACTACCGCCCCACAAAGGCTTTGC
244	ATTCGACCGGAAATGAGGTCTTCG	CGAAGACCTCATTTCCGGTCAAT
245	TTCGCTTGCTGAGTTGCTCTGTTT	GAACAGAGCAACTCAGCAAGCGAA
246	CGCGTGAAGACCCCATTCGCGAGT	ACTCGGGAATGGGGTCTTCACGCG
247	AACCGTATTTCGCGGTCACTTGTGG	CCACAAGTGACCGCGAATACGGTT
248	GGGGCCAACCGTTTCGAGGCGTAT	ATACGCCTCGAAACGGTTGGCCCC
249	TTCGGCTGGCAGTCCAAACGGCTT	AAGCCGTTTGGACTGCCAGCCGAA
250	GGGTGTGGTTAGAATGCACGGTTC	GAACCGTGCATTCTAACCACACCC
251	GCGAGGACCGAACTAGACAAACGG	CCGTTTGTCTAGTTCGGTCCTCGC
252	ACGCACGCGTGACCGAAGTTGCTG	CAGCAACTTCGGTCACGCGTGCGT
253	TAAAAGGTCGCTTTGAAAGGGGGA	TCCCCCTTTCAAAGCGACCTTTTA
254	TGCGATCGCTAACTGCTGGGACAA	TTGTCCCAGCAGTTAGCGATCGCA
255	GGAGGTATAAGCGGAGCGGCCTCA	TGAGGCCGCTCCGCTTATACCTCC
256	ATGCTGACATGTCGTGCACCTCGT	ACGAGGTGCACGACATGTCAGCAT
257	TGTGGTTAAAGCGTCCGTTCAACG	CGTTGAACGGACGCTTTAACCACA
258	CGTTCACACCGGCGTAAGCTGCGT	ACGCAGCTTACGCCGGTGTGAACG
259	CCTATCCCGGCGAGAAGTCTGTG	CACAGAAGTTCTCGCCGGGATAGG
260	GTCTGCACTACGCAGCGGAGGGA	TCCCTCCGCTGCGTGAGTGCAGAC
261	GCACGAGTTGGTGCTCGGCAGATT	AATCTGCCGAGCACCAACTCGTGC
262	AACGTCGCACGACACACGTTTCGTC	GACGAACGTGTGTCTGCGACGTT
263	ATGCGCGCTTATCCTAGCATGGTC	GACCATGCTAGGATAAGCGCGCAT
264	TCACGTTTTCTGCTCTGACATGAGG	CCTCATGTCGAGACGAAAACGTGA
265	TGTGCCTCATCCTTAGGATACGGC	GCCGTATCCTAAGGATGAGGCACA
266	AGGTGGTGTGGGTCAACCGCTTTA	TAAAGCGGTTGACCCACACCACCT
267	CTGGATCGAAGGGACTGCAAGCTC	GAGCTTGCAGTCCCTTCGATCCAG
268	TAGATCAACTCGCGTACGCATGGA	TCCATGCGTACGCGAGTTGATCTA
269	GATCCTGCGGAGAAGAGAGTGACG	CTGCACTCTCTTCTCCGCAGGATC
270	TACGTGTGGAGATGCCCCGAACCG	CGGTTCCGGGCATCTCCACACGTA
271	GCGCTATGTCAATCGTGGGCGTAG	CTACGCCACGATTGACATAGCGC
272	AGCGAGGTTTCTAGCGTCGACACC	GGTGTGACGCTAGAAACCTCGCT
274	ACCCAGGTTTTGCCGTTGTGGAAT	ATTCCACAACGGCAAACCTGGGT
275	CCCTGTAAACGGCTGCGTAGTCTC	GAGACTACGCAGCCGTTAACAGGG
276	AGGCCGATTTCAACCGCCAATTGC	GCAATTGGCGGGTGAAATCGGCCT
277	GAGCCCTCACTCCTTGCCCTTTGA	TCAAAGGGCAAGGAGTGAGGGCTC

Serial No.: 09/940,185
 Filed: August 27, 2001

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278	GGGTGGACATCCGCCTCGCAGTCA	TGACTGCGAGGCGGATGTCCACCC
279	GATGGCTGAGAACCGTGCTACGAT	ATCGTAGCACGGTTCTCAGCCATC
280	TCGACGTTAGGAGTGCTGCCAGAA	TTCTGGCAGCACTCCTAACGTCGA
281	CGAATGGGTCTGGACCTTG CATAG	CTATGCAAGGTCCAGACCCATTCTG
282	GTGCACCAGACATTCGAACTCGGA	TCCGAGTTCGAATGTCTGGTGCAC
283	AGAGGCCCCGTATATCCCATCCAT	ATGGATGGGATATACGGGGCCTCT
284	AACGCCTGTT CAGAGCATCAGCGG	CCGCTGATGCTCTGAACAGGCGTT
285	AAGGCTCAACACGCCTATGTGCGC	GCGCACATAGGCGTGTTGAGCCTT
286	AGTCCGTGTTGCCAGATTGGCTCG	CGAGCCAATCTGGCAACACGGACT
287	ATGTCCCATGTAAAGACGCGTGTG	CACACGCGTCTTTACATGGGACAT
288	ATGGAGTCTGCTCACGCCCAAAGG	CCTTTGGGCGTGAGCAGACTCCAT
289	CGGCCTCCAACAAGGAGCACTAAC	GTTAGTGCTCCTTGTTGGAGGCCG
290	CAGAGCCGTGGCAACATTGCGAGC	GCTCGCAATGTTGCCACGGCTCTG
291	TCATTTGAATGAGGTGCGCACCGG	CCGGTGCGCACCTCATTCAAATGA
292	GACGTACCGGAAGCGCCGTATAAA	TTTATACGGCGCTTCCGGTACGTC
293	ATGCGAGCAATGGGATCCGGATTC	GAATCCGGATCCCATTGCTCGCAT
294	AGAGTGAGGCCTCCCTGACCAGTG	CACTGGTCAGGGAGGCCTCACTCT
295	CGCACCGTAAGTAGATTTGCCCGC	GCGGGCAAATCTACTTACGGTGCG
297	TGAACCTTTGAGCACGTCGTGCGC	GCGCACGACGTGCTCAAAGGTTCA
298	TCCGCCTTTTTGGTTACCTCGAAG	CTTCGAGGTAACCAAAAAGGCGGA
299	GAACGCCAACGGCACTAACACATC	GATGTGTTAGTGCCGTTGGCGTTC
300	CCGACAGCAGCCAAGACGTCCCAG	CTGGGACGTCTTGGCTGCTGTCGG
302	CATAAAAAACCTGGGGCTCTGCG	CGCAGAGCCCCAGGTTTTTTTATG
303	TGCCAACTGTGCAGACCGGACTTA	TAAGTCCGGTCTGCACAGTTGGCA
304	GGCGAAAGAGCGAAACCGGCTCGT	ACGAGCCGGTTTCGCTCTTCGCC
305	GGGATGCGTATTTTAGCGAACACG	CGTGTTGCTAAAATACGCATCCC
306	TGGGATTCAGCGACCAGTACGCGA	TCGCGTACTGGTCTGCTGAATCCCA
307	CCCGATATTCGCCCGGCCTATTCTG	CGAATAGGCCGGGCGAATATCGGG
308	CGAGAAGATGCCTCACGCAACCAA	TTGGTTGCGTGAGGCATCTTCTCG
309	AACCTTGACCCGTGGATGACGCTA	TAGCGTCATCCACGGGTCAAGGTT
6	TTGCAACGGGCTGGTCAACGTCAA	TTGACGTTGACCAGCCCGTTGCAA
7	CGCATAGGTTGCCGATTTTCGTCAA	TTGACGAAATCGGCAACCTATGCG
312	GCTTCCGGATGAACGGGATGGTTG	CAACCATCCCGTTCATCCGGAAGC
313	CCCTCCATGTTCTTCGAACGGTTT	AAACCGTTCGAAGAACATGGAGGG
314	TTGATGGGCGGCAATGCTCTTGCT	AGCAAGAGCATTGCCGCCCATCAA
315	ATTGTGAGATGCGCCAAATTCCCC	GGGGAATTTGGCGCATCTACAAT
316	TCAGCACAGCCAGACGGTCAACTT	AAGTTGACCGTCTGGCTGTGCTGA
317	ACTCCACTCCTCGGTGGCAAACCTA	TAGTTTGCCACCGAGGAGTGGAGT

Serial No.: 09/940,185

Filed: August 27, 2001

318	TCTGGGCATGCCTGGACGGAGACG	CGTCTCCGTCCAGGCATGCCCAGA
319	TCTCAACTCCGGTACGACGAAACA	TGTTTCGTCTGTACCGGAGTTGAGA
320	TTGCGTGGTCAAAGGCGCAACGTG	CACGTTGCGCCTTTGACCACGCAA
321	AGACAGCGATCCGCGGCTCATGAT	ATCATGAGCCGCGGATCGCTGTCT
322	CGCGTCTCTAACTGAGAGCAGCCA	TGGCTGCTCTCAGTTAGAGACGCG
323	AGGCGCACATGTACGGACATTGAG	CTGAATGTCCGTACATGTGCGCCT
324	GATGAGTGGCACGTGCGGTGTGTA	TTACACACCGACGTGCCACTCATC
325	TGATCCATATTGTGCGGACGTTGCG	CGCAACGTCCGACAATATGGATCA
326	ACCTGCCGGGAGTTCATAGGCTAG	CTAGCCTATGAACTCCCGGCAGGT
327	AGCATTGGCGTTTTTCCGCAACGA	TCGTTGCGGAAAAACGCCAATGCT
328	GGTAATATTCAGCGCGACCGCTCA	TGAGCGGTGCGCGTGAATATTACC
329	ATAGCGTACGACGAGGTGACGCGC	GCGCGTCACCTCGTCGTACGCTAT
331	TAGGTCACGATGCGTTTGACGCTA	TAGCGTCAAACGCATCGTGACCTA
332	ACTGCCCCGTACCTCTGGTTCTGGC	GCCAGAACCAGAGGTACGGGCAGT
334	CCTTTGGCCTGAAGTTGTCTAGC	GCTACGACAACCTTCAGGCCAAAGG
335	GTGCCCCACGAGCGTATCGTTGTA	TACAACGATACGCTCGTGGGGCAC
336	AGGCGCTACGTGGGCCTGGAGCAA	TTGCTCCAGGCCACGTAGCGCCT
337	GGGTGCTACCATTGCATTAGTCCG	CGGACTAATGCAATGGTAGCACCC
338	ACCACGCGCGTACGTGTAACCGAG	CTCGGTTACACGTACGCGCGTGGT
339	CCATGATGCATTGGGTGCATTTAG	CTAAATGCACCCAATGCATCATGG
340	GGTCCGGCCCTACGAAACGTTGCA	TCGAACGTTTTCGTAGGGCCGGACC
341	CCGTGTGGCTGGAGATTCGTGTGA	TCACACGAATCTCCAGCCACACGG
342	GTTAGGGCGACGCATATTGGCACA	TGTGCCAATATGCGTCGCCCTAAC
343	GGGTGCTCAGGTGCGTTAGGATC	GATCCTAACGCACCTGACTGACCC
344	GCCGTGAAGTCGAATGCAGATCGA	TCGATCTGCATTGACTTCACGGC
345	GCCACCACCCAGTGCATTGAGGTA	TACCTGAATGCACTGGGTGGTGGC
346	GAGCTTAGTTTGCGGTCATCGGGC	GCCCGATGACCGCAAACCTAAGCTC
347	TGTTTGCCGCCATTAGGGAGTAAC	GTTACTCCCTAATGGCGGCAAACA
348	GCTCCGCTGGATGTGCCGTTTAG	CTAAACCGGCACATCCAGCGGAGC
349	CGGTAGCATGCGAGATCCCTGTTA	TAACAGGGATCTCGCATGCTACCG
350	CTACGCTCTACAGTTGCCTGCGA	TCGCAGGCAACTGGTAGAGCGTAG
351	GTGCCTCCTGCTGTATTTGCCAAG	CTTGCCAAATACAGCAGGAGGCAC
352	TTGCGACTCGACTTGACGAGTAG	CTACTCGTCCAAGTCGAGTCGCAA
353	TCTGGGAGCTGTTTACTCCAGCCA	TGGCTGGAGTAAACAGCTCCCAGA
354	TGCACGCGGAACTCCCTTTACCAT	ATGGTAAAGGGAGTTCCGCGTGCA
355	TGGCAGCAAATGAATCGAAAGCAC	GTGCTTTCGATTCAATTGCTGCCA
356	AACTGGTGACGCGGTACAGCGAAG	CTTCGCTGTACCGCGTCACCAATT
357	AGACGATTACGCTGGACGCCGTCG	CGACGGCGTCCAGCGTAATCGTCT

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Serial No.: 09/940,185
Filed: August 27, 2001

358	ATGCCCTCCTTCATGGAAAGGGTT	AACCCTTTCCATGAAGGAGGGCAT
359	ATTCTCGGAGCGTATGCGCCAGAA	TTCTGGCGCATACGCTCCGAGAAT
360	ATAGCGGAGTTTGGGTACGCGAAC	GTTTCGCGTACCCAAACTCCGCTAT
361	ACCTACGCATACCGCTTGGCGAGG	CCTCGCCAAGCGGTATGCGTAGGT
362	GATTACCTGAATGGCCAAGCGAGC	GCTCGCTTGGCCATTCAAGTAATC
363	CCTGTTAGCATCACGGCGCTTAGG	CCTAAGCGCCGTGATGCTAACAGG
364	CGGAATGATGCGCTCGACAACGCT	AGCGTTGTCGAGCGCATCATTCCG
365	TGAGAGAGGCGTTGGTTAAGGCAA	TTGCCTTAACCAACGCCTCTCTCA
366	AAGCAGGCGAAGGGATACTCCTCG	CGAGGAGTATCCCTTCGCCTGCTT
367	TCACGACAGACGGGCCGAGATTAC	GTAATCTCGGCCCGTCTGTCTGTA
368	AAGCAATTTGGCCTCGTTTTGTGA	TCACAAAACGAGGCCAAATTGCTT
369	GCTGGTTGCGGTAGGATCGCATAT	ATATGCGATCCTACCGCAACCAGC
370	TTGTGAATCCGTTCTGTCCCCGAC	GTCGGGGACAGAACGGATTACAA
372	TGGGCTCCTCTGAGGCGAGATGGC	GCCATCTCGCCTCAGAGGAGCCCA
373	GGATAGAGTGAATCGACCGGCAAC	GTTGCCGGTCGATTCACTCTATCC
374	TGCACCGAACGTGCACGAGTAATT	AATTACTCGTGCACGTTCCGGTGCA
375	GCCAGTATTCTCGGGTGTTGGACG	CGTCCAACACCCGAGAATACTGGC
376	TCGCTACCTAAGACCGGGCCATAC	GTATGGCCCGGTCTTAGGTAGCGA
377	TGGCATTGACGAGCAGCAGTCAGT	ACTGACTGCTGCTCGTCAATGCCA
378	CGCGTCCCAGCGCCCTTGGAGTAT	ATACTCCAAGGGCGCTGGGACGCG
379	ATGAAGCCTACCGGGCGACTTCGT	ACGAAGTCGCCCAGTAGGCTTCAT
380	CCAGACAGATGGCCTGGAACCATG	CATGGTTCCAGGCCATCTGTCTGG
381	TGGCGTGGGACCATCTCAAAGCTA	TAGCTTTGAGATGGTCCCACGCCA
382	CCGCATGGGAACACGTGTCAAGGT	ACCTTGACACGTGTTCCCATGCGG
383	GCCCACTCGTCAGCTGGACGTAAT	ATTACGTCCAGCTGACGAGTGGGC
384	ATTACGGTCGTGATCCAGAAAGCG	CGCTTTCTGGATCACGACCGTAAT
385	TGCGAGGTGAGCACCTACGAGAGA	TCTCTCGTAGGTGCTCACCTCGCA
386	GGGCCGCATTCTTGATGTCCATTC	GAATGGACATCAAGAATGCGGCC
387	CCTCGGATGTGGGCTCTCGCCTAG	CTAGGCGAGAGCCACATCCGAGG
388	TAGGCATGTTGGCGTGAGCGCTAT	ATAGCGCTCACGCCAACATGCCTA
389	CGATACGAACGAGGATGTCCGCCT	AGGCGGACATCCTCGTTCGTATCG
390	TACGCCGGTTAGCACGGTGCGCTA	TAGCGCACCGTGCTAACGGCGCTA
391	CATACGATGTCCGGGGCGTGTGCG	GCGACACGGCCCGGACATCGTATG
392	ATCCGCAGTTGTATGGCGCGTTAT	ATAACGCGCCATACAACCTGCGGAT
393	GGGTAAGGGACAAAGATGGGATGG	CCATCCCATCTTTGTCCCTTACCC
394	ATTGGAGTGTGTTTGGTGAATCCGC	GCGGATTACCAAAACACTCCAAT
395	GAACCGAGCCAACGTATGGACACG	CGTGTCCATACGTTGGCTCGGTTC
396	GCCGTCAAGCTTAAGGTTTTGGGC	GCCCAAACCTTAAGCTTGACGGC

Serial No.: 09/940,185

Filed: August 27, 2001

397	ACCTGCTTTTGGGTGGGTGATATG	CATATCACCCACCCAAAAGCAGGT
398	AATCGTGGGCGCAGCAAACGTATA	TATACGTTTGCTGCGCCACGATT
399	GTCGCCGGATTGCTCAGTATAAGC	GCTTATACTGAGCAATCCGGCGAC
400	ACCCGTCGATGCTTCCTCCTCAGA	TCTGAGGAGGAAGCATCGACGGGT
401	ATCCGGGTGGGCGATACAAGAGAT	ATCTCTTGATCGCCCACCCGGAT
402	TTCCGCATGAGTCAGCTTTGAAAA	TTTTCAAAGCTGACTCATGCGGAA
403	GCAAAGTCCCACTGGCAAGCCGAT	ATCGGCTTGCCAGTGGGACTTTGC
404	CGACCTCGGCTTCATCGTACACAT	ATGTGTACGATGAAGCCGAGGTCTG
405	CTCATGAGCGCAGTTGTGCGTGAG	CTCACGCACAACGCGCTCATGAG
406	CAGATGAAGGATCCACGGCCGGAG	CTCCGGCCGTGGATCCTTCATCTG
407	TCAAAGGCTCTTGGATACAGCCGT	ACGGCTGTATCCAAGAGCCTTTGA
408	TCCGCTAATTTCCAATCAGGGCTC	GAGCCCTGATTGGAATTAGCGGA
8	CCGTTTGCGGTGCTCCTTGCTCAA	TTGAGCAAGGACGACCGCAAACGG
9	TTGCTTTTCGTGGCTGCACTTCAA	TTGAAGTGCAGCCACGAAAGCGAA
411	CTTAGTTGGGGCGCGGTATCCAGA	TCTGGATACCGCGCCCCAACTAAG
412	GCTCTAATGCCGTGGAGTCGGAAC	GTTCCGACTCCACGGCATTAGAGC
413	CCGATTACAAATTGACTGACCGCA	TGCGGTCAGTCAATTTGTAATCGG
414	AGACGTACGTGAGCCTCCCGTGTC	GACACGGGAGGCTCACGTACGTCT
415	AATGGAGCGATACGATCCAACGCA	TGCGTTGGATCGTATCGCTCCATT
416	GGAGGCGCTGTACTGATAGGCGTA	TACGCCTATCAGTACAGCGCCTCC
417	TGTTTTTGAATTGACCACACGGGA	TCCCGTGTGGTCAATTCAAAAACA
418	CATGTCTGGATGCGCTCAATGAAG	CTTCATTGAGCGCATCCAGACATG
419	GCCCGCTAATCCGACACCCAGTTT	AAACTGGGTGTCGGATTAGCGGGC
420	CCATTGACAGGAGAGCCATGAGCC	GGCTCATGGCTCTCCTGTCAATGG
421	GAATCACCGAATCACCGACTCGTT	AACGAGTCGGTGATTCGGTGATTCT
422	AACCAGCCGCAGTAGCTTACGTCTG	CGACGTAAGCTACTGCGGCTGGTT
423	TTTTCTGAGGGACACGCGGGCGTT	AACGCCCCGCTGTCCCTCAGAAAA
424	GGTGCTCCGTTTGATCGATCCTCC	GGAGGATCGATCAAACGGAGCACC
425	CCGCTTAGGCCATACTCTGAGCCA	TGGCTCAGAGTATGGCCTAAGCGG
426	TAAGACATACCGACGCCCTTGCCT	AGGCAAGGGCGTCGGTATGTCTTA
427	GTTCCCGACGCCAGTCATTGAGAC	GTCTCAATGACTGGCGTCGGGAAC
428	TAAAAGTTTTCGCGGAGGTCGGGCT	AGCCCGACCTCCGCGAAACTTTTA
429	CGGTCCAGACGAGCTGAGTTCGGC	GCCGAACCTCAGCTCGTCTGGACCG
430	CGGCGTAGCGGCTACGGACTTAAA	TTTAAGTCCGTAGCCGCTACGCCG
431	GCTTGATGCCCATGCGGCAAGGT	ACCTTGCCGCATGGGCATCCAAGC
432	AGCGGGATCCCAGAGTTTCGAAAA	TTTTCGAACTCTGGGATCCCGCT
433	GAGCTTGAGAGCGAGGTCATCTCTC	GAGGATGACCTCGCTCTCAAGCTC
434	GCATCGGCCGTTTTGACCATATTC	GAATATGGTCAAAACGGCCGATGC

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Serial No.: 09/940,185

Filed: August 27, 2001

A10

435	CATAGCGCTGCACGTTTCGACCGC	GCGGTCGAAACGTGCAGCGCTATG
436	ACCCGACAACCACCAATTCAAAA	TTTTGAATTGGTGGTTGTCGGGT
437	GCGAACACTCATAAGAGCGCCCTG	CAGGGCGCTCTTATGAGTGTTCCG
439	CCGCCGAGTGTAGAGAGACTCCGA	TCGGAGTCTCTCTACACTCGGCGG
440	GACATCGGGAGCCGGAAACATGAG	CTCATGTTTCCGGCTCCCGATGTC
441	TCGTGTAGACTCGGCGACAGGCGT	ACGCCTGTGCGCGAGTCTACACGA
442	ATGCGCATATACTGACTGCGCAGG	CCTGCGCAGTCAGTATATGCGCAT
443	ACAAGCGAACCCGAGTTTTGATGA	TCATCAAACTCGGGTTCGCTTGT
444	GCATGAGACTCCGCGAAGACATGT	ACATGTCTTCGCGGAGTCTCATGC
445	TCCTACATGTGCGGTCACGATCAC	GTGATCGTGACGCGACATGTAGGA
446	GACCGATCGCGAAGTCGTACACAT	ATGTGTACGACTTCGCGATCGGTC
447	GTCGCCAGGACTGGGCCGATGTGA	TCACATCGGCCCAGTCCTGGCGAC
448	ACCGATAAGACTTGCATCCGAACG	CGTTCGGATGCAAGTCTTATCGGT
449	TCCATAACCAGTCCGAAGTGCCGG	CCGGCACTTCGGAAGTGTATGGA
450	ACGCGCCCTGCATCTCGTATTTAA	TTAAATACGAGATGCAGGGCGCGT
451	AGACCGCATCAATTGGCGCGTACC	GGTACGCGCCAATTGATGCGGTCT
452	AGAGGCTTGGCAAGTAGGGACCCT	AGGGTCCCTACTTGCCAAGCCTCT
453	GCAATGGACGCCAGACGATACCGG	CCGGTATCGTCTGGCGTCCATTGC
454	GCTGGACTTAGTCGTGTTTCGGCGG	CCGCCGAACACGACTAAGTCCAGC
455	AGGCATCGTGCCGGATTGCTCCCT	AGGGAGCAATCCGGCACGATGCCT
456	TGCGCATGTGACGTTGAACAAAG	CTTTGTTCAACGTCGACATGCGCA
459	TTCGGGTCACATCCGATGCCATAC	GTATGGCATCGGATGTGACCCGAA
460	ACCCATCGCCGAAAGCGATGTTG	CAACATCGCTTTCGGCGATGGGT
461	AAGCGCTGACTCGGCTAAGAATCA	TGATTCTTAGCCGAGTCAGCGCTT
462	ACTTCCAAGTCCTTGACCGTCCGA	TCGGACGGTCAAGGACTTGGAAGT
463	TCTCAATATTCCCGTAGTCGCCCA	TGGGCGACTACGGGAATATTGAGA
464	AACAGTTCCTCTTTTCTGGCGC	GCGCCAGGAAAAAGAGGAACTGTT
465	CGTCCTCCATGTTGTCACGAACAG	CTGTTCTGTGACAACATGGAGGACG
466	TGCGCAGACCTACCTGTCTTTGCT	AGCAAAGACAGGTAGGTCTGCGCA
467	ATGGACGGCTTCGAGTCCTCCTT	AAGGAGGACTGCGAAGCCGTCCAT
468	TGAACGCTTCTATGGGCCACGTA	TACGTGGCCCATAGAAAGCGTTCA
469	TGAACCCTGCCGCGAGCGATAACC	GGTTATCGCTCGCGGCAGGGTTCA
470	GTTCTTGCGCGATGAATCAGGACC	GGTCCTGATTTCATCGCGCAAGAAC
471	AGGGTACGTGTGCGAGCTTCGCGT	ACGCGAAGCTGCGACACGTACCCT
472	ACCCTTGCTCCGCCATGTCTCTCA	TGAGAGACATGGCGGAGCAAGGGT
473	GGGACAAGGATTGAAGCTGGCGTC	GACGCCAGCTTCAATCCTTGTCCC
474	TGTCGTTGCTCCCGAGTACCATTG	CAATGGTACTCGGGAGCAACGACA
475	GTTGTCCGAGACGTTTGTGTCAGC	GCTGACACAAACGTCTCGGACAAC

Serial No.: 09/940,185

Filed: August 27, 2001

477	GCTGGTGAACACTCACGAACCGCT	AGCGGTTCTGTGAGTGTTCAACAGC
478	GCAGACAGGGCAAATCGGTGCAA	TTTGCACCGATTGCCCCTGTCTGC
479	CCCATCACAACGAGTGGCGACTTT	AAAGTCGCCACTCGTTGTGATGGG
480	GCTTCTACAGCTGGCGTGCTAGCG	CGCTAGCACGCCAGCTGTAGAAGC
481	GAATGTGTGCCGACCATTCTAGCC	GGCTAGAATGGTCGGCACACATTC
482	CCAGCGGAAGTTAGAGCTCTGTGG	CCACAGAGCTCTAACTTCCGCTGG
483	TTTTTACCGACCACTCCATGTCGG	CCGACATGGAGTGGTCGGTAAAA
484	GCGGCTATGTGATGACGGCCTAGC	GCTAGGCCGTCATCACATAGCCGC
485	AGTACACGGGCGTGTTAGCGCTCC	GGAGCGCTAACACGCCCGTGTACT
486	TCCTGTGTGGTGGCGCACTCCCAC	GTGGGAGTGCGCCACCACACAGGA
487	CCAACTAACCAATCGCGCGGATGA	TCATCCGCGCGATTGGTTAGTTGG
488	AGTGAGTGACCAAGGCAGGAGCAA	TTGCTCCTGCCTTGGTCACTCACT
489	CATCTTTCGCGGAGTTTATTGCGG	CCGCAATAAACTCCGCGAAAGATG
490	CTTCGTCCGGTTAGTGCGACAGCA	TGCTGTCGCACTAACCGGACGAAG
491	CTCACGAAAACGTGGGCCCCGAAAT	ATTTCCGGGCCACGTTTTCTGTGAG
492	CGCAGCAGCTGAACTCTAGCATTG	CAATGCTAGAGTTCAGCTGCTGCG
493	AGGAGACATACGCCCAAATGGTG	GCACCATTTGGGCGTATGTCTCCT
494	ATTGAGAACTCGTGCGGGAGTTTG	CAAACCTCCCGCACGAGTTCTCAAT
495	CTCTTTGTAGGCCCAGGAGGAGCA	TGCTCCTCCTGGGCCTACAAAGAG
496	GCCGCAGGGTCGATAATTGGTCTA	TAGACCAATTATCGACCCTGCGGC
497	AAACGCCGCCCTGAGACTATTGGG	CCCAATAGTCTCAGGGCGGCGTTT
498	CTGAGTTGCCTGGAACGTTGGACT	AGTCCAACGTTCCAGGCAACTCAG
499	CGGATGGGTTGCAGAGTATGGGAT	ATCCCATACTCTGCAACCCATCCG
500	CTGACCTTTGGGGGTTAGTGCGGT	ACCGCACTAACCCCCAAAGGTCAG
501	GGAAATGAGAACCTTACCCAGCG	CGCTGGGGTAAGGTTCTCATTTCC
502	AACGCATCGTCCGTCAACTCATCA	TGATGAGTTGACGGACGATGCGTT
503	TGGAGAGAGACTTCGGCCATTGTT	AACAATGGCCGAAGTCTCTCTCCA
504	TTGCGCTCATTGGATCTTGTCAGG	CCTGACAAGATCCAATGAGCGCAA
505	AGCGCGTTAAAGCACGGCAACATT	AATGTTGCCGTGCTTTAACGCGCT
506	AGCCAGTAAACTGTGGGCGGCTGT	ACAGCCGCCCACAGTTTACTGGCT
507	CGACTGATGTGCAACCAGCAGCTG	CAGCTGCTGGTTGCACATCAGTCG
508	GGTTGCTCATACGACGAGCGAGTG	CACTCGCTCGTCGTATGAGCAACC
10	GTCCAACGCGCAACTCCGATTCAA	TTGAATCGGAGTTGCGCGTTGGAC
11	TTGCCGCACCGTCCGTCTCTCAA	TTGAGATGACGGACGGTGCGGCAA
512	AGAACCTCCGCGCCTCCGTAGTAG	CTACTACGGAGGCGCGGAGTTCT
513	AAAGGAGCTTTCGCCCAACGTACC	GGTACGTTGGGCGAAAGCTCCTTT
514	AGTGATTGTGCCACTCCACAGCTC	GAGCTGTGGAGTGGCACAATCACT
515	GCGATCGTCGAGGGTTGAGCTGAA	TTCAGCTCAACCCTCGACGATCGC

A10

Serial No.: 09/940,185

Filed: August 27, 2001

516	GGGAGACAGCCATTATGGTCCTCG	CGAGGACCATAATGGCTGTCTCCC
517	GAGACGCTGTCACTCCGGCAGAAC	GTTCTGCCGGAGTGACAGCGTCTC
518	CCACCGGTCGCTTAAGATGCACTT	AAGTGCATCTTAAGCGACCGGTGG
519	CGGCATAACGTCCAGTCCTGGGAC	GTCCCAGGACTGGACGTTATGCCG
520	AAGCGGAACGGGTTATACCGAGGT	ACCTCGGTATAACCCGTTCCGCTT
521	TGCACACTAGGTCCGTCGCTTGAT	ATCAAGCGACGGACCTAGTGTGCA
522	AGGGAACCGCGTTCAAACCTCAGTT	AACTGAGTTTGAACGCGGTTCCCT
523	GAATTACAACCACCCGCTCGTGTT	AACACGAGCGGGTGTTGTAATTC
524	TTCAGTGCTCACGAAGCATGGATT	AATCCATGCTTCGTGAGCACTGAA
525	TTAGTTTGGCGTTGGGACTTCACC	GGTGAAGTCCCAACGCCAACTAA
526	AATGCGACCTCGACGAGCCTCATA	TATGAGGCTCGTCGAGGTCGCATT
527	CCGAAACCGTTAACGTGGCGCACA	TGTGCGCCACGTAAACGGTTTCGG
528	TAAAGTAACAAGGCGACCTCCCGC	GCGGGAGGTCGCCTTGTTACTTTA
529	TAATGATTTTAGTCGCGGGGTGGG	CCCACCCCGCGACTAAAATCATTA
530	GGCTACTCTAAGTGCCCGCTCAGG	CCTGAGCGGGCACTTAGAGTAGCC
531	TGGCGGACGACTCAATATCTCACG	CGTGAGATATTGAGTCGTCCGCCA
532	GGGCGTTAGGCGTAATAGACCGTC	GACGGTCTATTACGCCTAACGCCC
533	GCCACCTTTAGACGGCGGCTCTAG	CTAGAGCCGCCGTCTAAAGGTGGC
534	GAGATGTGTAAACGTGCAGGCACC	GGTGCCTGCACGTTTACACATCTC
535	TAGCTCGTGGCCCTCCAAGCGTGT	ACACGCTTGGAGGGCCACGAGCTA
536	GTGTGCGCGCTATTTGGCCTTACC	GGTAAGGCCAAATAGCGCCGACAC
537	CCAGGGAAGCAACTGGTTGCCATT	AATGGCAACCAGTTGCTTCCCTGG
538	TTCCGAAACTAAGCCAGAACCGCT	AGCGGTTCTGGCTTAGTTTCGGAA
539	GCAAACCCGGTAACCCGAGAGTTC	GAACCTCTCGGGTTACCGGGTTTGC
540	GCAAATGGCGTCATGCACGAACGT	ACGTTCTGTGCATGACGCCATTTGC
542	AGTACTTTCGCGCCAGTTTAGGG	CCCTAAACTGGGCGCGAAAGTACT
543	AAGATCTGCGAGGCATCCCGGCTT	AAGCCGGGATGCCTCGCAGATCTT
544	GCAAGTGTATCGCACAGTGCGATT	AATCGCACTGTGCGATACACTTGC
545	CCGACAAGGCCTCAATTCATTCTG	CAGAATGAATTGAGGCCTTGTCGG
546	GTCTCGTCTCAACTTTAAGGCGCG	CGCGCCTTAAAGTTGAGACGAGAC
547	ATCCAGAGATCCGTTTTGCAGCGT	ACGCTGCAAAACGGATCTCTGGAT
548	GTCACCAGGAGGGAAGTTTCACCC	GGGTGAAACTTCCCTCCTGGTGAC
550	TTCCGTCAGGCGGATCAACGGAAT	ATTCCGTTGATCCGCCTGACGGAA
551	ATGCCGGACACGCATTACACAGGC	GCCTGTGTAATGCGTGTCCGGCAT
552	TGGGCCGCTTGGCGCTTTCATAGA	TCTATGAAAGCGCCAAGCGGCCCA
553	CCTAGCGCGAGCTTTACTGACCAG	CTGGTCAGTAAAGCTCGCGCTAGG
554	TTGGCCAGGAATATGGTCTCGAGA	TCTCGAGACCATATTCCTGGCCAA
555	GTCTGCGGCCGACTTGCTATGCAT	ATGCATAGCAAGTCGGCCGCAGAC

Serial No.: 09/940,185
 Filed: August 27, 2001

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556	AACTTGCTCATTCTCAAGCCGACG	CGTCGGCTTGAGAATGAGCAAGTT
557	ACGTCAGCGATTGTGGCGAAATAT	ATATTTGCGCCACAATCGCTGACGT
558	ACGGCCTGCGTCAGCACATGCATC	GATGCATGTGCTGACGCAGGCCGT
559	ATACCTCCGCAGAACCATTCCGTT	AACGGAATGGTTCTGCGGAGGTAT
560	AGTTCGCGGTCCCACGATTCACTT	AAGTGAATCGTGGGACCGCGAACT
561	TGCTCAATTTGTGCAGAAAACGCC	GGCGTTTTCTGCACAAATTGAGCA
562	TTATCGCGAGAGACGACCGTGTCC	GGACACGGTCGTCTCTCGCGATAA
563	GACGCGACGTGAGTAGTGGAAGCG	CGTTCCACTACTCACGTCGCGTC
564	ATGGTAGGGGCATTGGGCTTTCCT	AGGAAAGCCCAATGCCCTACCAT
565	CCAAATATAGCCGCGCGAGACAT	ATGTCTCCGCGCGGCTATATTTGG
566	GCAAACCCTGATTGAATCGTGCCC	GGGCACGATTCAATCAGGGTTTGC
567	TAGCGTCTTGCGTGAAACCATGGG	CCCATGGTTTCACGCAAGACGCTA
568	CCACCCCGACAGCGCTGGACTCTT	AAGAGTCCAGCGCTGTGCGGGGTGG
569	ACGAGCACTGAAGGCTGCTTTACG	CGTAAAGCAGCCTTCAGTGCTCGT
570	CATATCAGCGTCGTCTAGCTCGCG	CGCGAGCTAGACGACGCTGATATG
571	TGATCCCGGACCGGCTAGACTAAT	ATTAGTCTAGCCGGTCCGGGATCA
572	GGCCCCGACACTACAGGGTAATCA	TGATTACCCTGTAGTGTGCGGGGCC
573	GGCTCCAGGGCGAGATTATGAATG	CATTCATAATCTCGCCCTGGAGCC
574	CAAAATCCGATGGGCGGAAAATTA	TAATTTTCCGCCCATCGGATTTTG
575	CACAGGCGCATAGGGAGCAAGCTA	TAGCTTGCTCCCTATGCGCCTGTG
576	TAGCTATTGCCCGATGGGCTACT	AGTAGCCCATCGGGGCAATAGCTA
577	TGGTACGCGGTCCATAGCAAGTCG	CGACTTGCTATGGACCGCGTACCA
578	GACGCTGTGGCTCGGAACTGTTC	GAACAGTTTCCGAGCCACAGCGTC
579	CCTGGGTTGCGCCGCGTGGTAACTG	CAGTTACCACGCGGCGAACCAGG
580	TTCCCGCGTAGCCCAACAGCTATA	TATAGCTGTTGGGCTACGCGGGAA
581	TTCGCGGATTGCTGCCGCATAACA	TGTTATGCGGCAGCAATCCGCGAA
582	AAAAATGGCACCGAAGTTGAGGCA	TGCCTCAACTTCGGTGCCATTTTT
583	CATTCCGCGCGAGTTGAAATCCAG	CTGGATTTCAACTCGCGCGGAATG
584	ACGCACGTTTTTTGGCACGGTTAA	TTAACCGTGCCAAAAAACGTGCGT
585	TGTCCATGACGTCGTTTCTCTGGT	ACCAGAGAAACGACGTCATGGACA
586	TCTCAGTCGGACTCGTATGCCAGA	TCTGGCATAAGAGTCCGACTGAGA
587	CTCCAAACGCACACATCAAGCATC	GATGCTTGATGTGTGCGTTTGGAG
588	TTCAACCAAGCGGGGTGTTCTGTA	TCACGAACACCCCGCTTGTTGAA
589	GGTGTGCGGAGGGTGGTGACCTCGA	TCGAGGTCACCACCTCCGACACC
590	AGCGCTTTTGGTCATGATTTGCAA	TTGCAAATCATGACCAAAGCGCT
591	CCGAGGACTTACGTCTGCCAGGA	TCCTGGGCAGACGTAAGTCCTCGG
592	GCCCAATCCAGTTCTTATGCGCCC	GGGCGCATAAGAACTGGATTGGGC
593	CGGGTTAACCACGCAAGTTATGA	TCATAACTTGCGTGGGTAAACCCG

Serial No.: 09/940,185

Filed: August 27, 2001

594	TGATTAGCGCTCAATACACGCGTG	CACGCGTGTATTGAGCGCTAATCA
595	AAGGGCAGACCTTTGGTTCGACTG	CAGTCGAACCAAAGGTCTGCCCTT
596	GCGCCACAAGATTCACATGTCATT	AATGACATGTGAATCTTGTGGCGC
597	GCCATGTTCAAGGGCCTTTTCAAG	CTTCGAAAGGCCCTTGAACATGGC
598	CGCGGTGTTTTGTCTAGGTGCCGG	CCGGCACCTAGACAAAACACCGCG
600	CAACATTGTGGTGGCACTCCATCC	GGATGGAGTGCCACCACAATGTTG
601	CGATACGCGCCGGTTTGTTAAATC	GATTTAACAAACCGGCGCGTATCG
602	GGCTATAAACGTGCGGACTGCTCC	GGAGCAGTCCGCACGTTTATAGCC
603	TGGGTAAATCACTATTGCGCGGTT	AACCGCGCAATAGTGATTTACCCA
604	GTCTTCATCGGCCGCGCAAGCTA	TAGCTTGCGCGGGCCGATGAAGAC
605	GCGACACACCCTGTACTCTGATGC	GCATCAGAGTACAGGGTGTGTCGC
606	GTAGCAGGGTCCGCAAGACCAAGC	GCTTGGTCTTGCGGACCCTGCTAC
607	TCGCCAACGCAGGGTAACTGCCAT	ATGGCAGTTACCCTGCGTTGGCGA
608	ACTCCGAAGCTTCGAGCGGCACGA	TCGTGCCGCTCGAAGCTTCGGAGT
12	CATCGTCCCTTTTCGATGGGATCAA	TTGATCCCATCGAAAGGGACGATG
13	GCACGGGAGCTGACGACGTGTCAA	TTGACACGTCGTCAGCTCCCGTGC
611	ATCATCCCACGGCAGAGTGAAGAG	CTCTTCACTCTGCCGTGGGATGAT
612	CGCTGGACTGGCCTATCCGAGTCG	CGACTCGGATAGGCCAGTCCAGCG
613	CGGTCTCAGCAAACTGTCGAAA	TTTGCGACAGTGTTGCTGAGACCG
614	CGAACGTTCTCCGATGTAATGGCC	GGCATTACATCGGAGAACGTTCCG
615	ATACCGTGCGACAAGCCCTCTGA	TCAGAGGGGCTTGTCGCACGGTAT
616	AGCTCATTCCCGAGACGGAACACC	GGTGTTCGGTCTCGGGAATGAGCT
617	TTTCATGCGGCCGTTGCAAATCAT	ATGATTTGCAACGGCCGCATGAAA
618	ACTCGAACGGACGTTCAATCCCA	TGGGAATTGAACGTCCGTTTCGAGT
619	CTGCATGGTGTGGGTGAGACTCCC	GGGAGTCTCACCCACACCATGCAG
620	CCGCGAGTGTGGATGGCGTGTTGA	TCAACACGCCATCCACACTCGCGG
621	AATGTGTCGGTCCTAAGCCGGGTG	CACCCGGCTTAGGACCGACACATT
622	TAAGACGAGCCTGCACAGCTTGCG	CGCAAGCTGTGCAGGCTCGTCTTA
623	GGCGTGGGAGGATAAGACGATGTC	GACATCGTCTTATCCTCCCACGCC
624	TGCTCCATGTTAGGAACGCACCAC	GTGGTGCGTTCCTAACATGGAGCA
625	CGGTGTTGGTCGGACTGACGACTG	CAGTCGTCAGTCCGACCAACACCG
626	CCGCGCGTATCTATCAGATCTGGG	CCCAGATCTGATAGATACGCGCGG
627	AAAGCATGCTCCACCTGGAGCGAG	CTCGCTCCAGGTGGAGCATGCTTT
628	ACTTGCATCGCTGGGTAGATCCGG	CCGGATCTACCCAGCGATGCAAGT
629	TGCTTACGCAGTGGATTGGTCAGA	TCTGACCAATCCACTGCGTAAGCA
630	ATGCAGATGAACAAATCGCCGAAT	ATTCGGCGATTTGTTTCATCTGCAT
631	GCAATTCTGGGCCATGTATTCGTC	GACGAATACATGGCCCAGAATTGC
632	AGGGTTCCTTACGCGTCGACATGG	CCATGTCGACGCGTAAGGAACCCT

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Serial No.: 09/940,185
 Filed: August 27, 2001

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633	GTGGAGCTAATCGCGAGCCTCAGA	TCTGAGGCTCGCGATTAGCTCCAC
634	TCGTAGTCTCACCGGCAATGATCC	GGATCATTGCCGGTGAGACTACGA
635	TTATAGCAGTGCGCCAATGCTTCG	CGAAGCATTGGCGCACTGCTATAA
636	CGAACAGTGCTGTCCGTGCTCAA	TTGAGCGACGGACAGCACTGTTCCG
637	TCCGCGTGGACTGTTAGACGCTAT	ATAGCGTCTAACAGTCCACGCGGA
638	CATTAGCCCGCTGTCCGTAACGT	ACAGTTACCGACAGCGGGCTAATG
639	GGAAAGAACTCAGACGCGCAATG	CATTGCGCGTCTGAGTTTCTTTCC
640	CGACTCGCTGGACAGGAGAATCGT	ACGATTCTCCTGTCCAGCGAGTCG
641	CATGATCCTCTGTTTCACCCGCGG	CCGCGGGTGAAACAGAGGATCATG
642	GGCGTAGCGCTCTAAAGCTTCGG	CCGAAGCTTTTAGAGCGCTACGCC
643	AGTGATGCCATCAGGCCCGTATAC	GTATACGGGCCTGATGGCATCACT
644	TATGGAAAGGGCAACAGCGCTATC	GATAGCGCTGTTGCCCTTTCCATA
645	CTGTGGTTGATGGAGGATCCACAC	GTGTGGATCCTCCATCAACCACAG
646	ACTCGCTGGAATTTGCGCTGACAC	GTGTCAGCGCAAATTCAGCGAGT
647	CAGGCCCGAACCACGCGGTTACAG	CTGTAACCGCGTGGTTCGGGCCTG
648	GGCGCAATGGGCGCATAAATACTA	TAGTATTTATGCGCCCATTCGCGC
649	GGTCAATTCGCGCTACATGCCCTA	TAGGGCATGTAGCGCGAATTGACC
651	GATGGTGGACTGGAGCCCTTCCGC	GCGGAAGGGCTCCAGTCCACCATC
652	CCGCGCATAGCGCAATAGGGGAGA	TCTCCCCTATTGCGCTATGCGCGG
653	TCTTCTGGCTGTCCGGCACCCGAA	TTCGGGTGCCGGACAGCCAGAAGA
654	GCGTTCGCAATTCACGGGCCCTTA	TAAGGGCCCGTGAATTGCGAACGC
655	TCGTTTCGGCCTTGGAGAGTATCG	CGATACTCTCCAAGGCCGAAACGA
656	AGGTGCAAGTGCAAGGCGAGAGGC	GCCTCTCGCCTTGCACTTGACCT
657	CGCCAGTTTCGATGGCTGACGTTT	AAACGTCAGCCATCGAACTGGCG
658	GCTTTACCGCCGATCCCAGATATC	GATATCTGGGATCGGCGGTAAAGC
659	GTGCTTGACGAAGAGGCGAAATGT	ACATTTTCGCCTCTTCGTCAAGCAC
660	CAGTCCGTGCGCTTCATGTCCTCA	TGAGGACATGAAGCGCACGGACTG
661	TACGCGTAAGAGCCTACCCTCGCG	CGCGAGGGTAGGCTCTTACGCGTA
662	GGCGAGTCTTGTGGGGACATGTGT	ACACATGTCCCACAAGACTCGCC
663	CCAAAGCGAAGCGAGCGTGTCTAT	ATAGACACGCTCGCTTCGCTTTGG
664	GCCGTAGGTTGCTCTTCACCGAAC	GTTCCGGTGAAGAGCAACCTACGGC
665	AAATCCGCGATGTGCCGTGAGGCT	AGCCTCACGGCACATCGCGGATTT
666	GGCTTCGCACCCGTACCAATTTAG	CTAAATTGGTACGGGTGCGAAGCC
667	TGTAGAGTCCCACGTAGCCGGCAT	ATGCCGGCTACGTGGGACTCTACA
668	CACTAGTCTGGGGCAAGGTGCATT	AATGCACCTTGCCCCAGACTAGTG
669	TGTA CTGCGCAGGCGCAATAGATT	AATCTATTGCGCCTGCCGAGTACA
670	AACGGGTATCGGAAGCGTAAAGC	GCTTTTACGCTTCCGATAACCGTT
671	CGGACTGCCCGTTTGCAAGTTGAG	CTCAACTTGCAAACGGGCAGTCCG

Serial No.: 09/940,185

Filed: August 27, 2001

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672	ATCGTTCAGCACTGGAGCCCGTAA	TTACGGGCTCCAGTGCTGAACGAT
673	ATGCATCGAACTAGTCGTGACGGC	GCCGTCACGACTAGTTCGATGCAT
674	TTCCAGGCATTAAGGAGAGGGAGC	GCTCCCTCTCCTTAATGCCTGGAA
675	GTGCGACATCTACTCCACGATCCC	GGGATCGTGGAGTAGATGTCGCAC
676	CTCATCGTCCTAACACGAGAGCCC	GGGCTCTCGTGTTAGGACGATGAG
677	AATGGCACTTCGGCGGTGATGCAA	TTGCATCACCGCCGAAGTGCCATT
678	CCGTGGGAGGGAATCCAACCGAGG	CCTCGGTTGGATTCCCTCCCACGG
679	AAATTCTCGTTGGTGACGGCTCAT	ATGAGCCGTCACCAACGAGAATTT
680	TTGCTCTTATCCTTGCTCTGGGCG	CGCCCAGGACAAGGATAAGAGCAA
681	TTAAGGATCAGGCGGAGCTTGACG	CTGCAAGCTCCGCCTGATCCTTAA
682	CGCGACTAAGGTGCTGCAACTCGA	TCGAGTTGCAGCACCTTAGTCGCG
683	GCTCGATTTACGGCCCCGTTGTTC	GAACAACGGGGCCGTGAAATCGAGC
684	AGCAGAGTGCGTTGCAGAGGCTAA	TTAGCCTCTGCAACGCACTCTGCT
685	TGGAGGTGAGGACGACGTGCACTA	TAGTGCACGTCGTCTCACCTCCA
686	AACCGTTTAGGGTACATTCGCGGT	ACCGCGAATGTACCCTAAACGGTT
687	TATGATCGCTCGGCTCACAGTTTG	CAAACGTGAGCCGAGCGATCATA
688	GACTTTTTGCGGAAACGTCATGGT	ACCATGACGTTTCCGCAAAAAGTC
689	TGTCGGTTATTCCACCTGCAAGGA	TCCTTGACAGGTGGAATAACCGACA
690	CTATGGTTTGCACTGCGCCGTCGA	TCGACGGCGCAGTGCAAACCATAG
691	AGCAGGGAAATTCAATCGTTTCGA	TGCGAACGATTGAATTTCCCTGCT
692	CCTAACCGAGCGCTTAGCATTTC	GGAAATGCTAAGCGCTCGGTTAGG
693	CCCGACCCTAACTCGCATTGAATA	TATTCAATGCGAGTTAGGGTCGGG
694	TTGCTTAATGGTGACGCCACGGAT	ATCCGTGGCGTCACCATTAAGCAA
695	GATGCTCGCCGTGTTTAGTTCACG	CGTGAACATAACACGGCGAGCATC
696	TCGGATGACGAGTTTCCATGACGG	CCGTCATGGAACTCGTCATCCGA
697	ATGCGGTCTACTTTCTCGATCGGG	CCCGATCGAGAAAGTAGACCGCAT
698	TTGCGAGGCTAAGCACACGGTAAA	TTTACCGTGTGCTTAGCCTCGCAA
699	AACTTAATTACCGCCTCTGGCGCC	GGCGCCAGAGGCGGTAATTAAGTT
700	GTGACCGCGAACTTGTTCCGACAG	CTGTGCGGAACAAGTTCGCGGTCAC
701	TGCGGATTACCGATTGCTCTTAA	TTAAGAGCGAATCGGTAATCCGCA
702	TGATAGGGGGGCCACGTTGATCAGA	TCTGATCAACGTGGCCCCCTATCA
703	TCGCTCCGTAGCGATTATCGTAG	CTACGATGAATCGCTACGGAGCGA
704	TGTCAGCTGGTAGCCTCCGTTTGA	TCAAACGGAGGCTACCAGCTGACA
705	AGCGTCGCATGACGCTTACGGCAC	GTGCCGTAAGCGTCATGCGACGCT
14	AGACGCACCGCAACAGGCTGTCAA	TTGACAGCCTGTTGCGGTGCGTCT
15	CGTGTAGGGGTCCCGTGCTGTCAA	TTGACAGCACGGGACCCCTACACG
708	GTCGCATTCTGCACTGGCTTCGCC	GGCGAAGCCAGTGCGAATGCGAC
709	TGATTAGGTGCGGTCCCGTAGTCC	GGACTACGGGACCGCACCTAATCA

Serial No.: 09/940,185
 Filed: August 27, 2001

710	AAGGGACCTTGGGTGACGGCGAGA	TCTCGCCGTCACCCAAGGTCCCTT
711	TCAAATGGCCACCGCGTGTCAATC	GAATGACACGCGGTGGCCATTTGA
712	CTCCGACGACCAATAAATAGCCGC	GCGGCTATTTATTGGTCGTCGGAG
713	GGCTATTCCCGTAGAGAGCGTCCA	TGGACGCTCTCTACGGGAATAGCC
714	TGGATAACCTCTCGGTCCATCCAC	GTGGATGGACCGAGAGGTTATCCA
715	GACCGCTGTACGGGAGTGTGCCTT	AAGGCACACTCCCGTACAGCGGTC
716	GCCACAGAGTTTTAGCAGGGACCC	GGGTCCCTGCTAAAACTCTGTGGC
717	CCCACGCTTTCCGACCACTGACCT	AGGTCAGTGGTCGGAAAGCGTGGG
718	CATTGACACAATGCGGGGACTGAT	ATCAGTCCCCGCATTGTGTCAATG
719	AGCCACTCGACAGGGTTCCAAAGC	GCTTTGGAACCCTGTCGAGTGGCT
720	CAGGATGAGCAAAGCGACTCTCCA	TGGAGAGTCGCTTTGCTCATCCTG
721	CAAGGTATGGTCTGGGGCCTAAGC	GCTTAGGCCCCAGACCATACTTG
722	GGTGTTTCGGCCTAAACTCTTTTCGG	CCGAAAGAGTTTAGGCCGAACACC
723	TTAGTCGGACCCTGTGGCAATTC	GAATTGCCACAGGGTCCGACTAAA
724	CACACGTTTCCGACCAGCCTGAAC	G TTCAGGCTGGTCGGAAACGTGTG
725	CTGGACGAACTGGCTTCCTCGTAC	GTACGAGGAAGCCAGTTCGTCCAG
726	TTCACAATCCGCCGAAAACCTGACC	GGTCAGTTTTTCGGCGGATTGTGAA
727	AACAGGATATCCGCGATCACGACA	TGTCGTGATCGCGGATATCCTGTT
728	TACGTCGGATCCATTGCGCCGAGT	ACTCGGCGCAATGGATCCGACGTA
729	CATGGATCTCTCGGTTTGATCGCC	GGCGATCAAACCGAGAGATCCATG
730	AGCCAGGCGCGTATATACGCTCGG	CCGAGCGTATATACGCGCCTGGCT
731	ATTTGGCACGTGTCTGTGCCATGTT	AACATGGCACGACACGTGCCAAAT
732	CCGCGTTGCACCACTTTGAGGTGC	GCACCTCAAAGTGGTGCAACGCGG
733	TTGGACGTGACAAGCATGGCGCTC	GAGCGCCATGCTTGTCACGTCCAA
734	CTGAATCGCGCAAGTAAATGGGGG	CCCCATTTACTTGCGCGATTACAG
735	GATAAGGTCCACCAGATTGCGCGC	GCGCGCAATCTGGTGGACCTTATC
736	CTAACAATTGCCAACCGGGACGGC	GCCGTCCCGGTTGGCAATTGTTAG
737	GGTAACCTGGGTGCTTGCAAGTTA	TAACCTGCAAGCACCCAGGTTACC
738	ATCGGAGCCACCATTGCGATTGGG	CCCAATGCGAATGGTGGCTCCGAT
739	GTGAACTGGCTTGCCCCAGGATTA	TAATCCTGGGGCAAGCCAGTTCAC
740	AGGCGATAGCATGGTCCCATATGA	TCATATGGGACCATGCTATCGCCT
741	AACGGTATCGTGGCTAATGCACGA	TCGTGCATTAGCCACGATACCGTT
742	AGTAGTGGTCTCCAGATCGGCAA	TTGCCGATCTGGAGGACCACTACT
743	CCGTTGAATTGGACGGGAGGTTAG	CTAACCTCCCGTCCAATTCAACGG
744	GCATAAGTGCGGCATCGCGAAGGG	CCCTTCGCGATGCCGCACTTATGC
745	CGACAAGATGCAGCTGCTACATGC	GCATGTAGCAGCTGCATCTTGTCTG
746	TCGCAGTGATTCCCGACCGATAAG	CTTATCGGTGCGGAATCACTGCGA
747	CAAGGCGAGTCCACTCGAGGGGAC	GTCCCCTCGAGTGGACTCGCCTTG

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Serial No.: 09/940,185

Filed: August 27, 2001

748	GCAACTTGACGGCATAAGTGGCC	GGCCACTTATGCCGTGCAAGTTGC
749	TCCGAGCTTGACGTTGCGGACGTC	GACGTCGCGAACGTCAAGCTCGGA
750	AGCGCTGGGCTGTGCTGCCATCTC	GAGATGGCAGCACAGCCCAGCGCT
751	TTCATGTCGCTGAGTAACCCTCGC	GCGAGGGTTACTCAGCGACATGAA
752	CGAACCGCTAATGCCCATTGTCAG	CTGACAATGGGCATTAGCGGTTTCG
753	CACGGAAGGTGGGACAAATCGCCG	CGGCGATTTGTCCCACCTTCCGTG
754	CACAGATGGAGACAAACGCGCCTT	AAGGCGCGTTTGTCTCCATCTGTG
755	TTTTCGCAACTCGCTCCATAACCC	GGGTTATGGAGCGAGTTGCGAAAA
756	ACGTTACGTTTCCGGCGCCTCTAA	TTAGAGGCGCCGGAACGTAACGT
757	TATCGGATTGCGTGGGTTTCAATC	GATTGAAACCCACGCAATCCGATA
758	CTTCCACAATTGTCTGCGACGCAC	GTGCGTCGCAGACAATTGTGGAAG
759	TGCACAAAGGTATGGCTGTCCGGC	GCCGGACAGCCATACCTTTGTGCA
761	TCCGATGCCAGTCCCATCTTAAGA	TCTTAAGATGGGACTGGCATCGGA
762	CTGAAACCGTGCGAATCGAGGTGA	TCACCTCGATTGCGACGGTTTCAG
763	CGGTGTTCCGCGTGTGCAAAAAAT	ATTTTTTCGACACGCGGAACACCG
764	TCTAGCAGGCCTTTTGAATCGCCA	TGGCGATTCAAAGGCCTGCTAGA
765	GAGTCACCTCTGAGACGGACGCCA	TGGCGTCCGTCTCAGAGGTGACTC
766	TCTTCTGTATCCTGCAGCAGCAT	ATGCTGCTGCAGGATGACAGAAGA
767	GCGGATGAAACCTGAAAGGGGCCT	AGGCCCTTTTCAGGTTTCATCCGC
768	GGGGCCCCAACTGGTATCAAGCC	GGCTTGATACCAGTTTGGGGCCCC
769	GCATTGGCTTCGGATTCTCCTACA	TGTAGGAGAATCCGAAGCCAATGC
770	AGGCGGCCCAACTGTGAGGTCTTG	CAAGACCTCACAGTTGGGCGCCT
771	ACACCATGTGCTCCGCGCTGCAGT	ACTGCAGCGCGGAGCACATGGTGT
772	ACGATGAACATGAATCGGGAGTCG	CGACTCCCGATTTCATGTTTCATCGT
773	CTGCATCCCTGTAGCAGCGCTCCG	CGGAGCGCTGCTACAGGGATGCAG
774	GTGCCGTATTTGACCTGTGCGTT	AACGCACAGGTGAAATACGGCAC
775	GCAGTGCGCACTTCAGTTCAAAG	CTTTTGAAGTGAAGTGCGCACTGC
776	GCGATTTTAAGCGATGCCTTGACG	CGTCAAGGCATCGCTTAAATCGC
777	TAGGTGACCTAGGCTTGCTTGCGG	CCGCAAGCAAGCCTAGGTCACCTA
778	CTGGATACCTTGCTGTGCGGCGC	GCGCCGCACAGGCAAGGTATCCAG
779	CCCCTTACGGCTCGTCGTCTATGC	GCATAGACGACGAGCCGTAAGGGG
780	GCGCTTGCCCGATGCGATGCATTA	TAATGCATCGCATCGGGCAAGCGC
781	TTTCTGTAAGCGGCCTGGGGTTCA	TGAACCCAGGCCGCTTACAGAAA
782	GGCTGAGGTGAGCGGTAAGGATGA	TCATCCTTACCGCTCACCTCAGCC
783	TCTTGGCCTCCCCGATCTAATTTG	CAAATTAGATCGGGGAGGCCAAGA
784	GGAGGTAACGCCGTGTACGTAGGA	TCCTACGTACACGGCGTTACCTCC
785	GTAATCCATTTGTGGCTGCGTCAA	TTGACGCAGCCACAAATGGATTAC
786	CAAACCCATTCCAGCAGACGCCTG	CAGGCGTCTGCTGGAATGGGTTTG

Serial No.: 09/940,185

Filed: August 27, 2001

787	TAGGAGGAATTTGGCATGCGGGCG	CGCCCGCATGCCAAATTCCTCCTA
788	ATAGGTAGGATGTGCCCCGGCGTTG	CAACGCCGGGCACATCCTACCTAT
789	GCAAGTGCTTAGCTCGTCAGCCTC	GAGGCTGACGAGCTAAGCACTTGC
790	CTGGCTGTGTGCGCATCTCGTTAAC	GTTAACGAGATGCGACACAGCCAG
791	CTAACGTCGTCTCGCGCAATCACT	AGTGATTGCGCGAGACGACGTTAG
792	TTTTCATAAACGTTGTCCCCGAGC	GCTCGGGGACAACGTTTATGAAAA
793	AGCAGGAGGACGAACCTCCGCTCC	GGAGCGGAGGTTCTGCTCCTGCT
794	TTCAAGCACCATCGTGCAATCCAA	TTGGATTGCACGATGGTGCTTGAA
795	AGCGTCGCCAGTGATCGCTAGTGG	CCACTAGCGATCACTGGCGACGCT
796	TACATTCCCTGCCTCCGTGGGCTT	AAGCCACGGAGGCAGGGAATGTA
797	CGCTTCGCGTATTCACTAGCGGTT	AACCGCTACTGAATACGCGAAGCG
798	TCGGACGCGTCGACACTCATTATA	TATAATGAGTGTCGACGCGTCCGA
799	TCTGAGCAGGCCAGCGCTCCAGCT	AGCTGGAGCGCTGGCCTGCTCAGA
800	TTGAATTGCCAAGCCCTGAAAGCC	GGCTTTCAGGGCTTGGCAATTCAA
801	AGTTTTCGCCTTGATGCGTCGGTG	CACCGACGCATCAAGGCGAAAAC
802	GTTTCATAGGCCACGCGTGCTAAA	TTTAGCACGCGTGGCCTATGAAAC
16	CATCGCTGCAAGTACCGCACTCAA	TTGAGTGCGGTACTTGCAGCGATG

Please replace the table starting on page 236, line 1, with the following rewritten table:

TABLE 4

Seq. ID No.	Decoder Sequence (5'-3') + 5' T	Probe Sequence (5'-3') + 5' T
4001	TTTCGCCGTCGTGTAGGCTTTTCAA	TTTGAAAAGCCTACACGACGGCGAA
4002	TGTTCCCACTGAAGCTGCGATCTGG	TCCAGATCGCAGCTTCACTGGGAAC
4003	TTACTTGGCATGGAATCCCTTACGC	TGCGTAAGGGATTCCATGCCAAGTA
4004	TACTAGCATATTTCAAGGACCGGC	TGCCGGTGCCCTGAAATATGCTAGT
4005	TGAACGGTCAATGAACCCGCTGTGA	TTACACGCGGTTTATTGACCGTTC
4006	TGCGGCCTTGTTCAATATGAATCG	TCGATTCAATTGAACCAAGGCCGC
4007	TGATCGTTAGAGGGACCTTGCCCGA	TTCCGGCAAGGTCCCTCTAACGATC
4008	TTGGACCTAGTCCGGCAGTGACGAA	TTTCGTCCTGCGGACTAGGTCCA
4009	TATAAACTACCCAGGACGGGCGGAA	TTTCCGCCCGTCTGGGTAGTTTAT
4010	TCATCGGTTTCGCGCCAATCCAGATA	TTATCTGGATTGGCGCGAACCAGTG
4011	TGTCGGGCATAGAGCCGACCACCCT	TAGGGTGGTCGGCTCTATGCCCGAC
4012	TCTTGGGTCATGATTCACCGTGCTA	TTAGCACGGTGAATCATGACCCAAG
4013	TTGCCTAACGTGCTAATCAGCAGCG	TCGCTGCTGATTAGCACGTTAGGCA
4014	TCGCATGTTGGAGCATATGCCCTGA	TTACAGGGCATATGCTCCAACATGCG

Serial No.: 09/940,185
 Filed: August 27, 2001

All

4015	TAGCCACTGCATCAGTGCTGTTCAA	TTTGAACAGCACTGATGCAGTGGCT
4016	TGGTTGTTTTGAGGCGTCCCACACT	TAGTGTGGGACGCCTCAAAACAACC
4017	TTCGACCAAGAGCAAGGGCGGACCA	TTGGTCCGCCCTTGCTCTTGGTCGA
4018	TGACATCGCTATTGCGCATGGATCA	TTGATCCATGCGCAATAGCGATGTC
4019	TGAAATACGAAGTCTGCGGGAGTCG	TCGACTCCCGCAGACTTCGTATTTTC
4020	TTGTCATGAATGATTGATCGCGCGA	TTGCGCGGATCAATCATTGATGACA
4021	TATATCGGGATTCTGTTCCCGGTGAA	TTTCACCGGGAACGAATCCCGATAT
4022	TGCGAGCGTACCGAAGGGCCTAGAA	TTTCTAGGCCCTTCGGTACGCTCGC
4023	TTTACCGGCAGCGGACTTCCGAATT	TAATTTCGGAAGTCCGCTGCCGGTAA
4024	TGTAATCGAGAGCTGCGCGCCGTCT	TAGACGGCGCGCAGCTCTCGATTAC
4025	TCCTGTTAGCGTAGGCGAGTCGATC	TGATCGACTCGCCTACGCTAACAGG
4026	TTAGCGGACCGGCAGAATGAGTTCC	TGGAACTCATTCTGCCGGTCCGCTA
4027	TGGTACATGCACTACGCGCACTCGG	TCCGAGTGCGCGTAGTGCATGTACC
4028	TAATTCATCTCGGACTCCCGCGGTA	TTACCGCGGGAGTCCGAGATGAATT
4029	TGCCAAATCTGGATTGGCAGGAATG	TCATTCTGCCAATCCAGATTTGGC
4030	TTGCATTTTCGGTTGAGGCACATCC	TGGATGTGCCTCAACCGAAAATGCA
4031	TCCGCTCAATTCACCATGCTTCGCT	TAGCGAAGCATGGTGAATTGAGCGG
4032	TCTCGGAAAGGTGCAACTTTGGTGT	TACACCAAAGTTGCACCTTTCCGAG
4033	TAATTCGACCAGCAGAACGTCCCAT	TATGGGACGTTCTGCTGGTCTGAATT
4034	TGCCAGAGTCTCAACCTCACGGGAT	TATCCCGTGAGGTTGAGACTCTGGC
4035	TCCAACAACCTGGAACGGGAACCCGC	TGCGGGTTCCCGTTCCAGTTGTTGG
4036	TGAGAACTGATCGCTGAGGGGCATG	TCATGCCCCTCAGCGATCAGTTCTC
4037	TGGCACACTAGACTTGTGGCACCGA	TTCCGGTGCCACAAGTCTAGTGTGCC
4038	TTACATCCAAATATGGTCCGCGAA	TTTCGCGGACCATATTTGGATGTGA
4039	TGTCTGCCGGTGTGACCGCTTCATT	TAATGAAGCGGTCACACCGGCAGAC
4040	TCATCGCAGAGCATAAACACCTCA	TTGAGGGTGTTTATGCTCTGCGATG
4041	TGTTGGTATCTATGGCAGAGGCGGA	TTCCGCCTCTGCCATAGATACCAAC
4042	TACGAGGTGCCGCTGAGGTTCCATT	TAATGGAACCTCAGCGGCACCTCGT
4043	TGGAATGAGTGGACCCAGGCACATT	TAATGTGCCTGGGTCCACTCATTCC
4044	TTGTCAATATGCGTCCGTGTCGTCT	TAGACGACACGGACGCATATTGACA
4045	TTGATGAGCCTCAGGGTACGAGGCA	TTGCCTCGTACCCTGAGGCTCATCA
4046	TCACCGCGGTGTTCTACAGAATGA	TTCAATTCTGTAGGAACACCGCGGTG
4047	TTTGTTGCCAATGGTGTCCGCTCGG	TCCGAGCGGACACCATTGGCAACAA
4048	TTTAACCTGCGTCTGCCCTTTCTCT	TAGGAAAGGGGCAGACGCAGGTTAA
4049	TAGGCGCGTTCTGCTTAGTGACG	TCGTCACTAAGGCAGGAACGCGCCT
4050	TTAGGGCGATGGCACGAAGCTTCAA	TTTGAAGCTTCGTGCCATCGCCCTA
4051	TTGCATAGAGCCAAAGTCGGCGATG	TCATCGCCGACTTTGGCTCTATGCA
4052	TTTGAGAGGCAGGTGGCCACACGGA	TTCCGTGTGGCCACCTGCCTCTCAA

Serial No.: 09/940,185

Filed: August 27, 2001

4053	TTCCGCATTGTGAGAAAAACGAGC	TGCTCGTTTTTCTCACAATGCGGA
4054	TGGCGGTTTCCGTAGCTATAGGTGC	TGCACCTATAGCTACGGAAACCGCC
4055	TGGTGAAAATTTCTAGCCACGGGC	TGCCCGTGGCTACGAAATTTTCACC
4056	TCCGACGGAGGATGAAGACAATCAC	TGTGATTGTCTTCATCCTCCGTCCG
4057	TCCAGTTTGGCCCAATTCGCCAAAA	TTTTTGCGGAATTGGGCCAAACTGG
4058	TGGATCTATTAGGCCGTGCGCACAG	TCTGTGCGCACGGCCTAATAGATCC
4059	TCGGATGTCACCGTTTGGACTTTCA	TTGAAAGTCCAAACGGTGACATCCG
4060	TATCGCAAATCCTGCTCGTCCCTAA	TTTAGGGACGAGCAGGATTTGCGAT
4061	TCAGGGCATGCAATAATCGAGGTTT	TGAACCTCGATTATTGCATGCCCTG
4062	TCATGCGTTGATATATGGGCCAAG	TCTTGGGCCCATATATCAACGCATG
4063	TCAGCTGCAGCTTGTGACCAACCAC	TGTGGTTGGTCACAAGCTGCAGCTG
4064	TTTGTATGTCTGCCGACCGGCGACC	TGGTCGCCGGTTCGGCAGACATACAA
4065	TGATGGCGCCCGTTGATAGGTATGG	TCCATACCTATCAACGGGCGCCATC
4066	TATGAGAATCGCCGGCAATCTGCTA	TTAGCAGATTGCCGGCGATTCTCAT
4067	TATTTGCACTGACCGCAGGCTCGTG	TCACGAGCCTGCGGTCAAGTCAAAT
4068	TCAGGGAGAACGGTTAAGTTCCCGT	TACGGGAACCTAACCGTTCTCCCTG
4069	TAGGCCGGCGATCGAGGAGTTTGGT	TACCAAACCTCTCGATCGCCGGCCT
4070	TACACGGTGGTCTCTGATAGCGACC	TGGTCGCTATCAGAGACCACCGTGT
4071	TGTGCAACGCCGAGGACTTCCATCA	TTGATGGAAGTCCTCGGCGTTGCAC
4072	TTCCGGTGCCTGATAGCCATTCCGAT	TATCGGAATGGCTATCAGGCACCGA
4073	TTGAAATACCACACAGCCAATTGGC	TGCCAATTGGCTGTGTGGTATTTCA
4074	TGCATCGTGTACATGACTGCCGCGA	TTCCGCGGCAGTCATGTACACGATGC
4075	TCAGTGTTCTAACGGCGCGCGTGAA	TTTACGCGCGCCGTTAGAACACTG
4076	TCGCTTGCAACGTTGCACCTACTCT	TAGAGTAGGTGCAACGTTGCAAGCG
4077	TCGAAAAACTAGTGGGCTCGCCGCG	TCGCGGCGAGCCCACTAGTTTTTCG
4078	TCTTTCAGGGGAACCTGCCGGAGTCG	TCGACTCCGGCAGTTCCCCTGAAAG
4079	TTTGTGGCCTTCTTGTAAGGCACG	TCGTGCCTTTACAAGAAGGCCACAA
4080	TTCCACGAACGGCGACCCGTTGTCT	TAGACAACGGGTCGCCGTTCTGTGGA
4081	TCGACCTTGACAGAAACCTAACGAG	TCTCGTTAGGTTTCGTGCAAGGTCG
4082	TGTGCAGCTTCACGAGCCAGCCTGA	TTCAGGCTGGCTCGTGAAGCTGCAC
4083	TCGCTTTCGTGCGAATAGACGATGA	TTTCATCGTCTATTCGCACGAAAGCG
4084	TTGCGCTTACAGGCTCCTAGTGGTC	TGACCACTAGGAGCCTGTAAGCGCA
4085	TCACGCGCTTAGTCGCGATCGCATA	TTATGCGATCGCGACTAAGCGCGTG
4086	TCGGAGGGAGGGAGCTAGCCTTCGA	TTCGAAGGCTAGCTCCCTCCCTCCG
4087	TGCATCCGGCCTGTTGATGACGCCT	TAGGCGTCATCAACAGGCCGGATGC
4088	TAGGCCAATCGATCTTATTGCCGAG	TCTCGGCAATAAGATCGATTGGCCT
4089	TCCTTCCAATGATTGCATACGCCCA	TTGGGCGTATGCAATCATTGGAAGG
4090	TAACACTTGATCAGGCGGGTCGTCT	TAGACGACCCGCCTGATCAAGTGTT

A11

Serial No.: 09/940,185

Filed: August 27, 2001

4091	TTGGAATCAAGGCCGTAAAGGACAG	TCTGTCCTTTACGGCCTTGATTCCA
4092	TGCTCCCGTAACCTGTCCACCAGTG	TCACTGGTGGACAGGTTACGGGAGC
4093	TAGTGGTGAATGGCCGCTACCCTGA	TTCAGGGTAGCGGCCATTCACTACT
4094	TTGTTGAAGCGAGCTAAACGGCCA	TTGGCCGTTTTAGCTCGCTTCAACA
4095	TCAGCGCTCCAGAATTGACAGCAAT	TATTGCTGTCAATTCTGGAGCGCTG
4096	TTTCGAAGCGCACGTCCCTTTTCAA	TTTGAAAAGGGACGTGCGCTTCGAA
4097	TAACGCGTGGGGAATGGGACATCAA	TTTGATGTCCCATTTCCACGCGTT
4098	TCACGAGATAACGGCGTAAGGGTGG	TCCACCCTTACGCCGGTATCTCGTG
4099	TCTACGGCAAACGTGTGGAATGGGT	TACCCATTCCACACGTTTGCCGTAG
4100	TGTAGGGCGATGACGGGCGAACTAC	TGTAGTTCGCCCGTCATCGCCCTAC
4101	TAATCGACCTCCGCACACATTGCGA	TTGCGAATGTGTGCGGAGGTGATT
4102	TGAGTCAGCATGGCGGCGGAGATTC	TGAATCTCCGCCGCCATGCTGACTC
4103	TAGATAAAGACGCTGGCAACACGGG	TCCCGTGTGCGCAGCGTCTTTATCT
4104	TGGTACCTCAACGCGAACCCTTGT	TACAAGTGGTTCGCGTTGAGGTACC
4105	TAAGCGATGGCTACCCAAGAGCGAT	TATCGCTCTTGGGTAGCCATCGCTT
4106	TAGAGCTTATGCAGAACCAGGCGCC	TGGCGCCTGGTTCTGCATAAGCTCT
4107	TATCGGTCTCACGCAGGGTTGGATA	TTATCCAACCCTGCGTGAGACCGAT
4108	TTAGGTTGCCCGCCAGAAGAAACAT	TATGTTTCTTCTGGCGGGCAACCTA
4109	TCGGTGCTGTTGCAAAAGCCTGTAG	TCTACAGGCTTTTGCAACAGCACCG
4110	TTGATGAAAGTTTGCGGCAGGACAC	TGTGTCCTGCCGCAAACTTTCATCA
4111	TGTTGAGTGCAGGATGCAGCGATAG	TCTATCGCTGCATCCTGCACTCAAC
4112	TAACATTGCGCGGTCCACCAGGGTT	TAACCCTGGTGGACCGCGCAATGTT
4113	TGGGCAGTTAGAGAGGGCCAGAAGT	TACTTCTGGCCCTCTCTAACTGCCC
4114	TTCGAGCTGGTCCCGTGAACGTGT	TACACGTTACGGGGACCAGCTCGA
4115	TGTCTTGGGGGCCGCTTAGTGAAAA	TTTTTCACTAAGCGGCCCCCAAGAC
4116	TACTGTTGGCTTGCTCTCATGTCCA	TTGGACATGAGAGCAAGCCAACAGT
4117	TAGGACCATTCGGAAGGCGAAGATA	TTATCTTCGCCTTCCGAATGGTCCT
4118	TCTTGGGAGGCATCCGCTATAAGGA	TTCCCTTATAGCGGATGCCTCCCAAG
4119	TAATAAACGGAACGCACCGCTACAG	TCTGTAGCGGTGCGTTCCGTTTATT
4120	TTTGTACGTGCGGTCCCCATAAGCA	TTGCTTATGGGGACCGCACGTACAA
4121	TCGCACCAAAGTGAAGTTTCCAGAC	TGTCTGGGAAACTCAGTTTGGTGCG
4122	TACCTGATCGTTCCCTATTGGGAA	TTTCCCAATAGGGGAACGATCAGGT
4123	TGGAACAGAGGCGAGGGGACTGAGC	TGCTCAGTCCCCTCGCCTCTGTTCC
4124	TCCCTGCCTTGGCGTGTGCGCTTAT	TATAAGCCGACACGCCAAGGCAGGG
4125	TACTCTGACACGCCAACTCCGGAAG	TCTTCCGGAGTTGGCGTGTGAGAGT
4126	TCTGACGGTTTTTATTGCGCGTGCC	TGGCACGCCGAATGAAAACCGTCAG
4127	TTGCGGTGGTTCATTGGAGCTGGCC	TGGCCAGCTCCAATGAACCACCGCA
4128	TGCATGGCCAACTAGTGAAGTCGCAA	TTTGCAGTCACTAGTTGGCCATGC

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Serial No.: 09/940,185

Filed: August 27, 2001

4129	TAGGCCGTAAAGCGAATCTCACCTG	TCAGGTGAGATTGCTTTACGGCCT
4130	TCGAATATTATGCCGAGAATCCGCG	TCGCGGATTCTCGGCATAATATTCG
4131	TACAGACGAGCTCCCAACCACATGA	TTCATGTGGTTGGGAGCTCGTCTGT
4132	TGGACGGTTTGTGCTGGATTGTCTG	TCAGACAATCCAGCACAAACCGTCC
4133	TAAAGGCTATTGAGTTGGTTGGGCG	TCGCCCACCAACTCAATAGCCTTT
4134	TGATGGCCTATTCGGAGATCGGGCC	TGGCCCGATCTCCGAATAGGCCATC
4135	TGATCCAGTAGGCAGCTTCATCCCA	TTGGGATGAAGCTGCCTACTGGATC
4136	TAATAACTCGCGCGGGTATGTTCT	TAGAAGCATACCCGCGCGAGTTATT
4137	TGGAGGAGGTTTGTCTCGGAAAGCA	TTGCTTTCCGAGACAAACCTCCTCC
4138	TCTTTGGTATGGCACATGCTGCCCG	TCGGGCAGCATGTGCCATACCAAAG
4139	TAGAAAGGCTCGAGCAACGGGAACT	TAGTTCCCGTTGCTCGAGCCTTTCT
4140	TAATCTACCGCACTGGTCCGCAAGT	TACTTGCGGACCAGTGCGGTAGATT
4141	TCGTGGCGGCCACAGTTTTTGGAGG	TCCTCCAAAACTGTGGCCGCCACG
4142	TTTGCA GTTCAATCCATACGCACGT	TACGTGCGTATGGATTGAACTGCAA
4143	TGGCCCAAAGCCCCAGACCATTTTA	TTAAATGGTCTGGGGCTTTGGGCC
4144	TCGCCTGTCTTTGTCTCCGACAAT	TATTGTCCGGAGACAAAGACAGGCG
4145	TTGAGGCAACAGGGGGCCAAAACTA	TTAGTTTTTGGCCCTGTTGCCTCA
4146	TAGCGGAAGTAGTCCTCGGCTCGTC	TGACGAGCCGAGGACTACTTCCGCT
4147	TGGCCCCAAGGCTTAGAGATAGTGG	TCCACTATCTCTAAGCCTTGGGGCC
4148	TGCACGTGAAGTTTAACCGCGATTG	TGAATCGCGGTTAACTTCACGTGC
4149	TAGCGGCAGAAACGTTCTTGACGG	TCCGTCAAGGAACGTTTCTGCCGCT
4150	TTCTGTCGAGCAGACGAGATTGCACG	TCGTGCAATCTCGTCTGCTCGACGA
4151	TTCTTTGCCGCGTAACTGACTGCTT	TAAGCAGTCAGTTACGCGGCAAAGA
4152	TTTTATGTGCCAAGGGGTTAACCGA	TTCTGGTTAACCCCTTGGCACATAAA
4153	TTGTTACTGTGGTTCACGGCAGTCC	TGGACTGCCGTGAACCACAGTAACA
4154	TCGCGCCTCGCTAGACCTTTTATTG	TCAATAAAAGGTCTAGCGAGGCGCG
4155	TACAAATGCGTGAGAGCTCCCAACT	TAGTTGGGAGCTCTCACGCATTTGT
4156	TCGCGCAGATTATAGACCCGAATGT	TACATTCGGGTCTATAATCTGCGCG
4157	TCAAATAACGCCGCTGAATCGGCGT	TACGCCGATTACGCGGCGTTATTTG
4158	TCCTTCGTGCATCGGTGATGATGTT	TAACATCATCACCGATGCACGAAGG
4159	TTGAACACGAGCAACACTCCAACGC	TGCGTTGGAGTGTTGCTCGTGTTCA
4160	TCAGCAGATCCTTCGTAGCGGTGCT	TACGACCGCTACGAAGGATCTGCTG
4161	TGGAACCTGGTGAGTTGTGCCTCAT	TATGAGGCACAACTACCAGGTTCC
4162	TTCATAAGCGACAATCGCGGGCTTA	TTAAGCCCGCGATTGTCGCTTATGA
4163	TCCCAACGTCACTGAAGCTCACAGT	TACTGTGAGCTTCAGTGACGTTGGG
4164	TTGTCAGAGCCCCGCGACTCAGACGG	TCCGTCTGAGTCGCGGGCTCTGACA
4165	TTACACGAAGCCTCTCCGTGGTCCA	TTGGACCACGGAGAGGCTTCGTGTA
4166	TCTCAGAAGTCCTCGGCGAACTGGG	TCCAGTTCGCCGAGGACTTCTGAG

Serial No.: 09/940,185

Filed: August 27, 2001

4167	TATCCTTTTATCTACTCCGCGGCGA	TTCGCCGCGGAGTAGATAAAAAGGAT
4168	TAGGCGTGCAGCAACAGGATAAACC	TGGTTTATCCTGTTGCTGCACGCCT
4169	TACTCTCGAGGGAGTCTCTGGCACA	TTGTGCCAGAGACTCCCTCGAGAGT
4170	TTTGCCAGGTCCATCGAGACCTGTT	TAACAGGTCTCGATGGACCTGGCAA
4171	TTCCACTATAACTGCGGGTCCGTGT	TACACGGACCCGCGAGTTATAGTGGA
4172	TGCCCAGTCGGCTCTAACAAGTTCG	TCGAACTTGTTAGAGCCGACTGGGC
4173	TCGGAACGGATAATCGGCGTCAGGT	TACCTGACGCCGATTATCCGTTCCG
4174	TTAAAATAAGCGCCTGGCGGGAGGA	TTCTCCCGCCAGGCGCTTATTTTA
4175	TGCGCACTCGTGAAACCTTTCTCGC	TGCGAGAAAGGTTTCACGAGTGCGC
4176	TAGTTTGCCAGGTACTGGCAAGTGC	TGCACTTGCCAGTACCTGGCAAAC
4177	TACAACGAGGGATGTCCAGCGGCAT	TATGCCGCTGGACATCCCTCGTTGT
4178	TTTCGCAGCACCCGCTAGGTACAGT	TACTGTACCTAGCGGGTGCTGCGAA
4179	TTAACCCGATTTTTGCGACTCTGCC	TGGCAGAGTCGCAAAAATCGGGTTA
4180	TCGTGCGATTGCAAGCGTAGGCTTG	TCAAGCCTACGCTTGCAATGCGACG
4181	TGAGCTGACGTCACCATCAGAGGAA	TTTCTCTGATGGTGACGTCAGCTC
4182	TGGAGGCTGGGGGTGCGCCTTAAGT	TACTTAAGCGCGACCCCCAGCCTCC
4183	TTTGTGGGAACCGCACTAGCTGGCT	TAGCCAGCTAGTGCGGTTCCACAA
4184	TCCCTCGCACTGTGTTACCCTCTT	TAAGAGGGTGAACACAGTGCGAGGG
4185	TTCATTGACTCGAATCCGCACAACG	TCGTTGTGCGGATTGAGTCAATGA
4186	TACAGGGGTTGGCCTTCGTACGTAC	TGTACGTACGAAGGCCAACCCTGT
4187	TAGGCCGTGCAACATCACACAGGAT	TATCCTGTGTGATGTTGCACGGCCT
4188	TGGGCCGTGGTCACGTAATATTGGC	TGCCAATATTACGTGACCACGGCCC
4189	TGCGCGGACATGAAACGACAAGGCC	TGGCCTTGTCGTTTCATGTCCGCGC
4190	TCTTATTGGGTGCCGGTGTGCGATT	TAATCCGACACCGGCACCCAATAAG
4191	TGGGGCGGTTACCAAAAAATCCGAT	TATCGGATTTTTTGGTAACCGCCCC
4192	TCCGTGCGATACCGGCTACGATCAA	TTTGATCGTAGCCGGTATGCGACGG
4193	TATGGCCGTGCTGGGGACAAGTCAA	TTTGAATTGTCCCCAGCACGGCCAT
4194	TACGAAAAAGTGTGCGGATCCCCT	TAGGGGATCCGCACACTTTTTTCGT
4195	TCCAAGTACACCGCACGCATGTTTA	TTAAACATGCGTGCGGTGTACTTGG
4196	TATCGTGCGTGAGTGTGCGCATCTA	TTAGATGCGACACTCCACGCACGAT
4197	TTCCAGATACCGCCCCGAACCTTGA	TTCAAAGTTCGGGGCGGTATCTGGA
4198	TTCTGCTGGCAGCACGTGAAGTGGC	TGCCACTTCACGTGCTGCCAGCAGA
4199	TTTGAAATTGCTCTGCCGTCACTCA	TTGACTGACGGCAGAGCAATTTCAA
4200	TAGTCAGGCGAGATGTTTACGGCAGC	TGCTGCCTGAACATCTCGCCTGACT
4201	TACAAGCCGACGTTAAGCCCGCCCA	TTGGGCGGGCTTAACGTGCGCTTGT
4202	TCCCTAATGAGGCCAGTAACCTGCA	TTGCAGGTTACTGGCCTCATTAGGG
4203	TGTGAGACACACATCCCCTCCAATG	TCATTGGAGGGGATGTGTGTCTCAC
4204	TCGACGGATGCAGAGTTCAGTGGTC	TGACCACTGAACTCTGCATCCGTCG

Serial No.: 09/940,185
Filed: August 27, 2001

4205	TCCCGCATGCCTGGCGGTATTACAA	TTTGTAAACCGCCAGGCATGCGGG
4206	TTTAGCAAAGCGGCGCCGTTAGCAA	TTTGCTAACGGCGCCGCTTTGCTAA
4207	TCCCGACACGGGTCAGCGTAATAAT	TATTATTACGCTGACCCGTGTCGGG
4208	TGCGACGGCCCTGAGGTATGTCGTC	TGACGACATACCTCAGGGCCGTCGC
4209	TCAAAAGTGTGTTCCCTTGCGCTTG	TCAAGCGCAAGGGAACACACTTTTG
4210	TTCTCGAAGCACAGCCCGGTTATTG	TCAATAACCGGGCTGTGCTTCGAGA
4211	TATGCTAACC GTTGCCATGGA ACT	TAGTTCCATGGCCAACGGTTAGCAT
4212	TCTTGCGGAGTGTTAGCCCAGCGGT	TACCGCTGGGCTAACACTCCGCAAG
4213	TTGCTCCCTAGGCGCTCGGAGGAGT	TACTCCTCCGAGCGCCTAGGGAGCA
4214	TCCAATGCCTTTGAGTAAGCGATGG	TCCATCGCTTACTCAAAGGCATTGG
4215	TAGCAGATAACGTCCCAATGACGCC	TGGCGTCATTGGGACGTTATCTGCT
4216	TTTGACCATTACGTGTTGCGCCCAT	TATGGGCGCAACACGTAATGGTCAA
4217	TTGCGGTATTTGCGGAATTCGTCTG	TCAGACGAATTCGCAAATACGCGA
4218	TCTGCGTGTAACAATGTCCCGCAG	TCTGCGGGACATTGTTGACACGCAG
4219	TTCTGGTGCCACGCAAGGTCCACAG	TCTGTGGACCTTGCGTGGCACCAGA
4220	TCTCCGGGAGGTCACTTAATTGCGG	TCCGCAATTAAGTGACCTCCCGGAG
4221	TTTTTCGTGATTGCCCCGGAGGAGGC	TGCCTCCTCCGGGCAATCAGAAAA
4222	TTCGGGATGTAGCTGGGGCTACCGG	TCCGGTAGCCCCAGCTACATCCCGA
4223	TCGAGCCAACGCAACACGTCCTTG	TCAAGGACGTGTTTGCGTTGGCTCG
4224	TGCAAAGCCTTTGTGGGGCGGTAGT	TACTACCGCCCCACAAAGGCTTTGC
4225	TATTCGACCGGAAATGAGGTCTTCG	TCGAAGACCTCATTTCCGGTCTGAAT
4226	TTTCGCTTGCTGAGTTGCTCTGTTT	TGAACAGAGCAACTCAGCAAGCGAA
4227	TCGCGTGAAGACCCATTCCCGAGT	TACTCGGGAATGGGGTCTTCACGCG
4228	TAACCGTATTCGCGGTCACTTGTGG	TCCACAAGTGACCGCGAATACGGTT
4229	TGGGGCCAACCGTTTCGAGGCGTAT	TATACGCCTCGAAACGGTTGGCCCC
4230	TTTCGGCTGGCAGTCCAAACGGCTT	TAAGCCGTTTGGACTGCCAGCCGAA
4231	TGGGTGTGGTTAGAATGCACGGTTC	TGAACCGTGCATTCTAACCACACCC
4232	TGCGAGGACCGAACTAGACAAACGG	TCCGTTTGTCTAGTTCCGGTCTTCGC
4233	TACGCACGCGTGACCGAAGTTGCTG	TCAGCAACTTCGGTCACGCGTGCCT
4234	TTAAAAGGTGCTTTGAAAGGGGGA	TTCCCCCTTTCAAAGCGACCTTTTA
4235	TTGCGATCGCTAACTGCTGGGACAA	TTTGTCCCAGCAGTTAGCGATCGCA
4236	TGGAGGTATAAGCGGAGCGGCCTCA	TTGAGGCCGCTCCGCTTATACCTCC
4237	TATGCTGACATGTCGTGCACCTCGT	TACGAGGTGCACGACATGTCAGCAT
4238	TTGTGGTTAAAGCGTCCGTTCAACG	TCGTTGAACGGACGCTTTAACCACA
4239	TCGTTACACCGGCGTAAGCTGCGT	TACGCAGCTTACGCCGGTGTGAACG
4240	TCCTATCCCGGCGAGAACTTCTGTG	TCACAGAAGTTCTCGCCGGGATAGG
4241	TGTCTGCACTCACGCAGCGGAGGGA	TTCCCTCCGCTGCGTGAGTGACAGC
4242	TGCACGAGTTGGTGCTCGGCAGATT	TAATCTGCCGAGCACCAACTCGTGC

A11

Serial No.: 09/940,185

Filed: August 27, 2001

4243	TAACGTCGCACGACACACGTTTCGTC	TGACGAACGTGTGTCGTGCGACGTT
4244	TATGCGCGCTTATCCTAGCATGGTC	TGACCATGCTAGGATAAGCGCGCAT
4245	TTCACGTTTTTCGTCTCGACATGAGG	TCCTCATGTCTGAGACGAAAACGTGA
4246	TTGTGCCTCATCCTTAGGATACGGC	TGCCGTATCCTAAGGATGAGGCACA
4247	TAGGTGGTGTGGGTCAACCGCTTTA	TTAAAGCGGTTGACCCACACCACCT
4248	TCTGGATCGAAGGGACTGCAAGCTC	TGAGCTTGCAGTCCCTTCGATCCAG
4249	TTAGATCAACTCGCGTACGCATGGA	TTCCATGCGTACGCGAGTTGATCTA
4250	TGATCCTGCGGAGAAGAGAGTGCAG	TCTGCACTCTCTTCTCCGCAGGATC
4251	TTACGTGTGGAGATGCCCCGAACCG	TCGGTTCGGGGCATCTCCACACGTA
4252	TGCGCTATGTCAATCGTGGGCGTAG	TCTACGCCACGATTGACATAGCGC
4253	TAGCGAGGTTTCTAGCGTCGACACC	TGGTGTCTGACGCTAGAAACCTCGCT
4254	TACCCAGGTTTTGCCGTTGTGGAAT	TATCCACAACGGCAAAACCTGGGT
4255	TCCCTGTTAACGGCTGCGTAGTCTC	TGAGACTACGCAGCCGTTAACAGGG
4256	TAGGCCGATTTACCCGCCAATTGC	TGCAATTGGCGGGTGAAATCGGCCT
4257	TGAGCCCTCACTCCTTGCCCTTTGA	TTCAAAGGGCAAGGAGTGAGGGCTC
4258	TGGGTGGACATCCGCCTCGCAGTCA	TTGACTGCGAGGCGGATGTCCACCC
4259	TGATGGCTGAGAACCCTGCTACGAT	TATCGTAGCACGGTTCTCAGCCATC
4260	TTCGACGTTAGGAGTGCTGCCAGAA	TTTCTGGCAGCACTCCTAACGTCGA
4261	TCGAATGGGTCTGGACCTTGATAG	TCTATGCAAGGTCCAGACCCATTCTG
4262	TGTGCACCAGACATTCGAACTCGGA	TTCCGAGTTCGAATGTCTGGTGAC
4263	TAGAGGCCCGTATATCCCATCCAT	TATGGATGGGATATACGGGGCCTCT
4264	TAACGCCTGTTTCAAGCATCAGCGG	TCCGCTGATGCTCTGAACAGGCGTT
4265	TAAGGCTCAACACGCCTATGTGCGC	TGCGCACATAGGCGTGTTGAGCCTT
4266	TAGTCCGTGTTGCCAGATTGGCTCG	TCGAGCCAATCTGGCAACACGGACT
4267	TATGTCCCATGTAAAGACGCGTGTG	TCACACGCGTCTTTACATGGGACAT
4268	TATGGAGTCTGCTCACGCCCAAAGG	TCCTTTGGGCGTGAGCAGACTCCAT
4269	TCGGCCTCCAACAAGGAGCACTAAC	TGTTAGTGCTCCTTGTTGGAGGCCG
4270	TCAGAGCCGTGGCAACATTGCGAGC	TGCTCGCAATGTTGCCACGGCTCTG
4271	TTCAATTTGAATGAGGTGCGCACCGG	TCCGGTGCGCACCTCATTCAAATGA
4272	TGACGTACCGGAAGCGCCGTATAAA	TTTTATACGGCGCTTCCGGTACGTC
4273	TATGCGAGCAATGGGATCCGGATTC	TGAATCCGGATCCCATTGCTCGCAT
4274	TAGAGTGAGGCCTCCCTGACCAAGT	TCACTGGTCAGGGAGGCCTCACTCT
4275	TCGCACCGTAAGTAGATTTGCCCGC	TGCGGGCAAATCTACTTACGGTGCG
4276	TTGAACCTTTGAGCACGTGCTGCGC	TGCGCACGACGTGCTCAAAGGTTCA
4277	TTCCGCCTTTTTGGTTACCTCGAAG	TCTTCGAGGTAACCAAAAAGGCGGA
4278	TGAACGCCAACGGCACTAACACATC	TGATGTGTTAGTGCCGTTGGCGTTC
4279	TCCGACAGCAGCCAAGACGTCCAG	TCTGGGACGTCTTGGCTGCTGTGCG
4280	TCATAAAAAACCTGGGGCTCTGCG	TCGCAGAGCCCCAGGTTTTTTATG

Serial No.: 09/940,185

Filed: August 27, 2001

4281	TTGCCAACTGTGCAGACCGGACTTA	TTAAGTCCGGTCTGCACAGTTGGCA
4282	TGGCGAAAGAGCGAAACCGGCTCGT	TACGAGCCGGTTTCGCTCTTTCGCC
4283	TGGGATGCGTATTTTAGCGAACACG	TCGTGTTGCTAAAATACGCATCCC
4284	TTGGGATTACGCGACCAGTACGCGA	TTGCGTACTGGTCGCTGAATCCCA
4285	TCCCGATATTCGCCCCGGCCTATTCG	TCGAATAGGCCGGGCGAATATCGGG
4286	TCGAGAAGATGCCTCACGCAACCAA	TTTGATTGCGTGAGGCATCTTCTCG
4287	TAACCTTGACCCGTGGATGACGCTA	TTAGCGTCATCCACGGGTCAAGGTT
4288	TTTGCAACGGGCTGGTCAACGTCAA	TTTGACGTTGACCAGCCCGTTGCAA
4289	TCGCATAGGTTGCCGATTTCGTCAA	TTTGACGAAATCGGCAACCTATGCG
4290	TGCTTCCGGATGAACGGGATGGTTG	TCAACCATCCCGTTCATCCGGAAGC
4291	TCCCTCCATGTTCTTCGAACGGTTT	TAAACCGTTCGAAGAACATGGAGGG
4292	TTTGATGGGCGGCAATGCTCTTGCT	TAGCAAGAGCATTGCCGCCCATCAA
4293	TATTGTGAGATGCGCCAAATTCCCC	TGGGGAATTTGGCGCATCTCACAAT
4294	TTCAGCACAGCCAGACGGTCAACTT	TAAGTTGACCGTCTGGCTGTGCTGA
4295	TACTCCACTCCTCGGTGGCAAACCTA	TTAGTTTGCCACCGAGGAGTGGAGT
4296	TTCTGGGCATGCCTGGACGGAGACG	TCGTCTCCGTCCAGGCATGCCCAGA
4297	TTCTCAACTCCGGTACGACGAAACA	TTGTTTCGTGCTACCGGAGTTGAGA
4298	TTTGCGTGGTCAAAGGCGCAACGTG	TCACGTTGCGCCTTTGACCACGCAA
4299	TAGACAGCGATCCGCGGCTCATGAT	TATCATGAGCCGCGGATCGCTGTCT
4300	TCGCGTCTCTAACTGAGAGCAGCCA	TTGGCTGCTCTCAGTTAGAGACGCG
4301	TAGGCGCACATGTACGGACATTGAG	TCTGAATGTCCGTACATGTGCGCCT
4302	TGATGAGTGGCACGTCGGTGTGTAA	TTTACACACCGACGTGCCACTCATC
4303	TTGATCCATATTGTGCGACGTTGCG	TCGCAACGTCCGACAATATGGATCA
4304	TACCTGCCGGGAGTTCATAGGCTAG	TCTAGCCTATGAACTCCCGGCAGGT
4305	TAGCATTGGCGTTTTTCCGCAACGA	TTGTTGCGGAAAAACGCCAATGCT
4306	TGGTAATATTCAGCGCGACCGCTCA	TTGAGCGGTGCGCTGAATATTACC
4307	TATAGCGTACGACGAGGTGACGCGC	TGCGCGTCACCTCGTCGTACGCTAT
4308	TTAGGTCACGATGCGTTTGACGCTA	TTAGCGTCAAACGCATCGTGACCTA
4309	TACTGCCCCGTACCTCTGGTTCTGGC	TGCCAGAACCAGAGGTACGGGCAGT
4310	TCCTTTGGCCTGAAGTTGTGCTAGC	TGCTACGACAACCTCAGGCCAAAGG
4311	TGTGCCCCACGAGCGTATCGTTGTA	TTACAACGATACGCTCGTGGGGCAC
4312	TAGGCGCTACGTGGGCCTGGAGCAA	TTTGCTCCAGGCCACGTAGCGCCT
4313	TGGGTGCTACCATTGCATTAGTCCG	TCGGACTAATGCAATGGTAGACCC
4314	TACCACGCGCGTACGTGTAACCGAG	TCTCGGTTACACGTACGCGCGTGGT
4315	TCCATGATGCATTGGGTGCATTAG	TCTAAATGCACCCAATGCATCATGG
4316	TGGTCCGGGCCCTACGAAACGTTTCA	TTTCAACGTTTCGTAGGGCCGGACC
4317	TCCGTGTGGCTGGAGATTCGTGTGA	TTTCAACGTTTCGTAGGGCCGGACC
4318	TGTTAGGGCGACGCATATTGGCACA	TTGTGCCAATATGCGTCGCCCTAAC

Serial No.: 09/940,185
Filed: August 27, 2001

4319	TGGGTCAGTCAGGTGCGTTAGGATC	TGATCCTAACGCACCTGACTGACCC
4320	TGCCGTGAAGTCGAATGCAGATCGA	TTCGATCTGCATTGCACTTCACGGC
4321	TGCCACCACCCAGTGCATTGAGTA	TTACCTGAATGCACTGGGTGGTGGC
4322	TGAGCTTAGTTTGCGGTCATCGGGC	TGCCCCGATGACCGCAAACCTAAGCTC
4323	TTGTTTGCCGCCATTAGGGAGTAAC	TGTTACTCCCTAATGGCGGCAAACA
4324	TGCTCCGCTGGATGTGCCGGTTTAG	TCTAAACCGGCACATCCAGCGGAGC
4325	TCGGTAGCATGCGAGATCCCTGTTA	TTAACAGGGATCTCGCATGCTACCG
4326	TCTACGCTCTACCAGTTGCCTGCGA	TTCGCAGGCAACTGGTAGAGCGTAG
4327	TGTGCCCTCCTGCTGTATTTGCCAAG	TCTTGGCAAATACAGCAGGAGGCAC
4328	TTTGCAGACTCGACTTGACGAGTAG	TCTACTCGTCCAAGTCGAGTCGCAA
4329	TTCTGGGAGCTGTTTACTCCAGCCA	TTGGCTGGAGTAAACAGCTCCCAGA
4330	TTGCACGCGGAACTCCCTTTACCAT	TATGGTAAAGGGAGTTCCGCGTGCA
4331	TTGGCAGCAAATGAATCGAAAGCAC	TGTGCTTTTCGATTCAATTTGCTGCCA
4332	TAAGTGGTGACGCGGTACAGCGAAG	TCTTCGCTGTACCGCGTCACCAAGT
4333	TAGACGATTACGCTGGACGCCGTCG	TCGACGGCGTCCAGCGTAATCGTCT
4334	TATGCCCTCCTTCATGGAAAGGGTT	TAACCCCTTCCATGAAGGAGGGCAT
4335	TATTCTCGGAGCGTATGCGCCAGAA	TTTCTGGCGCATACGCTCCGAGAAT
4336	TATAGCGGAGTTTGGGTACGCGAAC	TGTTTCGCGTACCCAAACTCCGCTAT
4337	TACCTACGCATACCGCTTGGCGAGG	TCCTCGCCAAGCGGTATGCGTAGGT
4338	TGATTACCTGAATGGCCAAGCGAGC	TGCTCGCTTGGCCATTCAGGTAATC
4339	TCCTGTTAGCATCACGGCGCTTAGG	TCCTAAGCGCCGTGATGCTAACAGG
4340	TCGGAATGATGCGCTCGACAACGCT	TAGCGTTGTGAGCGCATCATTCCG
4341	TTGAGAGAGGCGTTGGTTAAGGCAA	TTTGCCCTAACCAACGCCTCTCTCA
4342	TAAGCAGGCGAAGGGATACTCCTCG	TCGAGGAGTATCCCTTCGCCTGCTT
4343	TTACACGACAGACGGGCCGAGATTAC	TGTAATCTCGGCCCGTCTGTCTGTA
4344	TAAGCAATTTGGCCTCGTTTTGTGA	TTCAAAAACGAGGCCAAATTGCTT
4345	TGCTGGTTGCGGTAGGATCGCATAT	TATATGCGATCCTACCGCAACCAGC
4346	TTTGTGAATCCGTTCTGTCCCCGAC	TGTGCGGGACAGAACGGATTACAA
4347	TTGGGCTCCTCTGAGGCGAGATGGC	TGCCATCTCGCCTCAGAGGAGCCCA
4348	TGGATAGAGTGAATCGACCGGCAAC	TGTTGCCGGTCGATTCACTCTATCC
4349	TTGCACCGAACGTGCACGAGTAATT	TAATTACTCGTGACGTTCCGGTGCA
4350	TGCCAGTATTCTCGGGTGTTGGACG	TCGTCCAACACCCGAGAATACTGGC
4351	TTGCTACCTAAGACCGGGCCATAC	TGTATGGCCCGGTCTTAGGTAGCGA
4352	TTGGCATTGACGAGCAGCAGTCAGT	TACTGACTGCTGCTCGTCAATGCCA
4353	TCGCGTCCCAGCGCCCTTGAGTAT	TATACTCCAAGGGCGCTGGGACGCG
4354	TATGAAGCCTACCGGGCGACTTCGT	TACGAAGTCGCCCCGGTAGGCTTCAT
4355	TCCAGACAGATGGCCTGGAACCATG	TCATGGTTCCAGGCCATCTGTCTGG
4356	TTGGCGTGGGACCATCTCAAAGCTA	TTAGCTTTGAGATGGTCCCACGCCA

A 11

Serial No.: 09/940,185

Filed: August 27, 2001

4357	TCCGCATGGGAACACGTGTCAAGGT	TACCTTGACACGTGTTCCCATGCGG
4358	TGCCCCACTCGTCAGCTGGACGTAAT	TATTACGTCCAGCTGACGAGTGGGC
4359	TATTACGGTCGTGATCCAGAAAGCG	TCGCTTTCTGGATCACGACCGTAAT
4360	TTGCGAGGTGAGCACCTACGAGAGA	TTCTCTCGTAGGTGCTCACCTCGCA
4361	TGGGCCGCAATTCTTGATGTCCATTC	TGAATGGACATCAAGAATGCGGCCC
4362	TCCTCGGATGTGGGCTCTCGCCTAG	TCTAGGCGAGAGCCCACATCCGAGG
4363	TTAGGCATGTTGGCGTGAGCGCTAT	TATAGCGCTCACGCCAACATGCCTA
4364	TCGATACGAACGAGGATGTCCGCCT	TAGGCGGACATCCTCGTTCGTATCG
4365	TTACGCCGGTTAGCACGGTGCGCTA	TTAGCGCACCGTGCTAACCGGCGTA
4366	TCATACGATGTCCGGGCCGTGTGCG	TGCGACACGGCCCCGGACATCGTATG
4367	TATCCGCAGTTGTATGGCGCGTTAT	TATAACGCGCCATACAACCTGCGGAT
4368	TGGGTAAGGGACAAAGATGGGATGG	TCCATCCCATCTTTGTCCCTTACCC
4369	TATTGGAGTGTTTTGGTGAATCCGC	TGCGGATTACCAAACACTCCAAT
4370	TGAACCGAGCCAACGTATGGACACG	TCGTGTCCATACGTTGGCTCGGTTC
4371	TGCCGTCAAGCTTAAGTTTTGGGC	TGCCCAAACCTTAAGCTTGACGGC
4372	TACCTGCTTTTGGGTGGGTGATATG	TCATATCACCCACCCAAAAGCAGGT
4373	TAATCGTGGGCGCAGCAAACGTATA	TTATACGTTTGCTGCGCCCACGATT
4374	TGTCGCCGGATTGCTCAGTATAAGC	TGCTTATACTGAGCAATCCGGCGAC
4375	TACCCGTCGATGCTTCCTCCTCAGA	TTCTGAGGAGGAAGCATCGACGGGT
4376	TATCCGGGTGGGCGATACAAGAGAT	TATCTCTTGTATCGCCCACCCGGAT
4377	TTTCCGCATGAGTCAGCTTTGAAAA	TTTTTCAAAGCTGACTCATGCGGAA
4378	TGCAAAGTCCCACTGGCAAGCCGAT	TATCGGCTTGCCAGTGGGACTTTGC
4379	TCGACCTCGGCTTCATCGTACACAT	TATGTGTACGATGAAGCCGAGGTG
4380	TCTCATGAGCGCAGTTGTGCGTGAG	TCTCACGCACAACTGCGCTCATGAG
4381	TCAGATGAAGGATCCACGGCCGGAG	TCTCCGGCCGTGGATCCTTCATCTG
4382	TTCAAAGGCTCTTGGATACAGCCGT	TACGGCTGTATCCAAGAGCCTTTGA
4383	TTCCGCTAATTTCCAATCAGGGCTC	TGAGCCCTGATTGGAAATTAGCGGA
4384	TCCGTTTGCGGTGCTCCTTGCTCAA	TTTGAGCAAGGACGACCGCAAACGG
4385	TTTCGCTTTCGTGGCTGCACTTCAA	TTTGAAGTGCAGCCACGAAAGCGAA
4386	TCTTAGTTGGGGCGCGGTATCCAGA	TTCTGGATACCGCGCCCCAACTAAG
4387	TGCTCTAATGCCGTGGAGTCGGAAC	TGTTCCGACTCCACGGCATTAGAGC
4388	TCCGATTACAAATTGACTGACCGCA	TTGCGGTCAAGTCAATTTGTAATCGG
4389	TAGACGTACGTGAGCCTCCCGTGTC	TGACACGGGAGGCTCACGTACGTCT
4390	TAATGGAGCGATACGATCCAACGCA	TTGCGTTGGATCGTATCGCTCCATT
4391	TGGAGGCGCTGTACTGATAGGCGTA	TTACGCCTATCAGTACAGCGCCTCC
4392	TTGTTTTTGAATTGACCACACGGGA	TTCCCGTGTGGTCAATTCAAAAACA
4393	TCATGTCTGGATGCGCTCAATGAAG	TCTTCATTGAGCGCATCCAGACATG
4394	TGCCCCGCTAATCCGACACCCAGTTT	TAAACTGGGTGTCGGATTAGCGGGC

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Serial No.: 09/940,185
Filed: August 27, 2001

4395	TCCATTGACAGGAGAGCCATGAGCC	TGGCTCATGGCTCTCCTGTCAATGG
4396	TGAATCACCGAATCACCGACTCGTT	TAACGAGTCGGTGATTCCGGTGATTC
4397	TAACCAGCCGCGAGTAGCTTACGTCG	TCGACGTAAGCTACTGCGGCTGGTT
4398	TTTTTCTGAGGGACACGCGGGCGTT	TAACGCCCCGCGTGTCCTCAGAAAA
4399	TGGTGCTCCGTTTGATCGATCCTCC	TGGAGGATCGATCAAACGGAGCACC
4400	TCCGCTTAGGCCATACTCTGAGCCA	TTGGCTCAGAGTATGGCCTAAGCGG
4401	TTAAGACATACCGACGCCCTTGCCCT	TAGGCAAGGGCGTCGGTATGTCTTA
4402	TGTTCCCGACGCCAGTCATTGAGAC	TGTCTCAATGACTGGCGTCGGGAAC
4403	TTAAAAGTTTCGCGGAGGTCGGGCT	TAGCCCGACCTCCGCGAAACTTTTA
4404	TCGGTCCAGACGAGCTGAGTTCGGC	TGCCGAACCTCAGCTCGTCTGGACCG
4405	TCGGCGTAGCGGCTACGGACTTAAA	TTTTAAGTCCGTAGCCGCTACGCCG
4406	TGCTTGATGCCCATGCGGCAAGGT	TACCTTGCCGCATGGGCATCCAAGC
4407	TAGCGGGATCCAGAGTTTCGAAAA	TTTTTCGAAACTCTGGGATCCCGCT
4408	TGAGCTTGAGAGCGAGGTCATCCTC	TGAGGATGACCTCGCTCTCAAGCTC
4409	TGCATCGGCCGTTTTGACCATATTC	TGAATATGGTCAAAACGGCCGATGC
4410	TCATAGCGCTGCACGTTTCGACCGC	TGCGGTCGAAACGTGCAGCGCTATG
4411	TACCCGACAACCACCAATTCAAAAA	TTTTTTGAATTGGTGGTTGTCGGGT
4412	TGCGAACACTCATAAGAGCGCCCTG	TCAGGGCGCTCTTATGAGTGTTTCGC
4413	TCCGCCGAGTG TAGAGAGACTCCGA	TTCCGAGTCTCTTACACTCGGCGG
4414	TGACATCGGGAGCCGGAAACATGAG	TCTCATGTTTCCGGCTCCCGATGTC
4415	TTCTGTAGACTCGGCGACAGGCGT	TACGCCTGTCGCCGAGTCTACACGA
4416	TATGCGCATATACTGACTGCGCAGG	TCCTGCGCAGTCAGTATATGCGCAT
4417	TACAAGCGAACCCGAGTTTTGATGA	TTTCATCAAACTCGGGTTCGCTTGT
4418	TGCATGAGACTCCGCGAAGACATGT	TACATGTCTTCGCGGAGTCTCATGC
4419	TTCTACATGTCGCGTCACGATCAC	TGTGATCGTGACGCGACATGTAGGA
4420	TGACCGATCGCGAAGTCGTACACAT	TATGTGTACGACTTCGCGATCGGTC
4421	TGTCGCCAGGACTGGGCCGATGTGA	TTACATCGGCCAGTCTGGCGAC
4422	TACCGATAAGACTTGCATCCGAACG	TCGTTTCGGATGCAAGTCTTATCGGT
4423	TTCCATAACCAGTCCGAAGTGCCGG	TCCGGCACTTCGGACTGGTTATGGA
4424	TACGCGCCCTGCATCTCGTATTTAA	TTTAAATACGAGATGCAGGGCGCGT
4425	TAGACCGCATCAATTGGCGCGTACC	TGGTACGCGCCAATTGATGCGGTCT
4426	TAGAGGCTTGGCAAGTAGGGACCCT	TAGGGTCCCTACTTGCCAAGCCTCT
4427	TGCAATGGACGCCAGACGATACCGG	TCCGGTATCGTCTGGCGTCCATTGC
4428	TGCTGGACTTAGTCGTGTTCCGCGG	TCCGCCGAACACGACTAAGTCCAGC
4429	TAGGCATCGTGCCGGATTGCTCCCT	TAGGGAGCAATCCGGCAGCATGCCT
4430	TTGCGCATGTGACGTTGAACAAAG	TCTTTGTTCAACGTCGACATGCGCA
4431	TTTCGGGTCACATCCGATGCCATAC	TGTATGGCATCGGATGTGACCCGAA
4432	TACCCATCGCCGGAAAGCGATGTTG	TCAACATCGCTTTCGGCGATGGGT

A11

Serial No.: 09/940,185
 Filed: August 27, 2001

4433	TAAGCGCTGACTCGGCTAAGAATCA	TTGATTCTTAGCCGAGTCAGCGCTT
4434	TACTTCCAAGTCCTTGACCGTCCGA	TTCGGACGGTCAAGGACTTGGAAGT
4435	TTCTCAATATTCCCGTAGTCGCCCA	TTGGGCGACTACGGGAATATTGAGA
4436	TAACAGTTCCTCTTTTCTGCGCGC	TGCGCCAGGAAAAAGAGGAAGTGT
4437	TCGTCTCCATGTTGTACGAACAG	TCTGTTCGTGACAACATGGAGGACG
4438	TTGCGCAGACCTACCTGTCTTTGCT	TAGCAAAGACAGGTAGGTCTGCGCA
4439	TATGGACGGCTTCGCGAGTCCTCCTT	TAAGGAGGACTGCGAAGCCGTCCAT
4440	TTGAACGCTTTCTATGGGCCACGTA	TTACGTGGCCCATAGAAAGCGTTCA
4441	TTGAACCCTGCCGCGAGCGATAACC	TGGTTATCGCTCGCGGCAGGGTTCA
4442	TGTTCTTGCGCGATGAATCAGGACC	TGGTCCTGATTCATCGCGCAAGAAC
4443	TAGGGTACGTGTGCGAGCTTCGCGT	TACGCGAAGCTGCGACACGTACCCT
4444	TACCCTTGCTCCGCCATGTCTCTCA	TTGAGAGACATGGCGGAGCAAGGGT
4445	TGGGACAAGGATTGAAGCTGGCGTC	TGACGCCAGCTTCAATCCTTGTCCC
4446	TTGTCGTTGCTCCCGAGTACCATTG	TCAATGGTACTCGGGAGCAACGACA
4447	TGTTGTCCGAGACGTTTGTGTCAGC	TGCTGACACAAACGTCTCGGACAAC
4448	TGCTGGTGAACACTCACGAACCGCT	TAGCGGTTTCGTGAGTGTTACCAGC
4449	TGCAGACAGGGCAAATCGGTGCAAA	TTTTGCACCGATTGCCCCTGTCTGC
4450	TCCCATCACAACGAGTGCGCACTTT	TAAAGTCGCCACTCGTTGTGATGGG
4451	TGCTTCTACAGCTGGCGTGCTAGCG	TCGCTAGCACGCCAGCTGTAGAAGC
4452	TGAATGTGTGCCGACCATTCTAGCC	TGGCTAGAATGGTTCGGCACACATTC
4453	TCCAGCGGAAGTTAGAGCTCTGTGG	TCCACAGAGCTCTAACTTCCGCTGG
4454	TTTTTTACCGACCACTCCATGTCGG	TCCGACATGGAGTGGTTCGGTAAAAA
4455	TGCGGCTATGTGATGACGGCCTAGC	TGCTAGGCCGTCATCACATAGCCGC
4456	TAGTACACGGGCGTGTTAGCGCTCC	TGGAGCGCTAACACGCCCGTGTACT
4457	TTCTGTGTGGTGGCGCACTCCAC	TGTGGGAGTGCGCCACCACACAGGA
4458	TCCAATAACCAATCGCGCGGATGA	TTTATCCGCGCGATTGGTTAGTTGG
4459	TAGTGAGTGACCAAGGCAGGAGCAA	TTTGCTCCTGCCTTGGTCACTCACT
4460	TCATCTTTGCGCGGAGTTTATTGCGG	TCCGCAATAAACTCCGCGAAAGATG
4461	TCTTCGTCCGGTTAGTGCGACAGCA	TTGCTGTGCGACTAACCGGACGAAG
4462	TCTCACGAAAACGTGGGCCCGAAAT	TATTTGCGGGCCACGTTTTCTGTGAG
4463	TCGCAGCAGCTGAACTCTAGCATTG	TCAATGCTAGAGTTCAGCTGCTGCG
4464	TAGGAGACATACGCCCAAATGGTGC	TGCACCATTTGGGCGTATGTCTCCT
4465	TATTGAGAACTCGTGCGGGAGTTTG	TCAAACCTCCCGCACGAGTTCTCAAT
4466	TCTCTTTGTAGGCCCAGGAGGAGCA	TTGCTCCTCCTGGGCCTACAAAGAG
4467	TGCCGCAGGGTCGATAATTGGTCTA	TTAGACCAATTATCGACCCTGCGGC
4468	TAAACGCCGCCCTGAGACTATTGGG	TCCCAATAGTCTCAGGGCGGCGTTT
4469	TCTGAGTTGCCTGGAACGTTGGAAT	TAGTCCAACGTTCCAGGCAACTCAG
4470	TCGGATGGGTTGCAGAGTATGGGAT	TATCCCATACTCTGCAACCCATCCG

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Serial No.: 09/940,185

Filed: August 27, 2001

4471	TCTGACCTTTGGGGGTTAGTGCGGT	TACCGCACTAACCCCCAAAGGTCAG
4472	TGGAAATGAGAACCTTACCCCAGCG	TCGCTGGGGTAAGGTTCTCATTTCC
4473	TAACGCATCGTCCGTCAACTCATCA	TTGATGAGTTGACGGACGATGCGTT
4474	TTGGAGAGAGACTTCGGCCATTGTT	TAACAATGGCCGAAGTCTCTCTCCA
4475	TTTGCCTCATTGGATCTTGTCAGG	TCCTGACAAGATCCAATGAGCGCAA
4476	TAGCGCGTTAAAGCACGGCAACATT	TAATGTTGCCGTGCTTTAACGCGCT
4477	TAGCCAGTAACTGTGGGCGGCTGT	TACAGCCGCCACAGTTTACTGGCT
4478	TCGACTGATGTGCAACCAGCAGCTG	TCAGCTGCTGGTTGCACATCAGTCG
4479	TGGTTGCTCATACGACGAGCGAGTG	TCACTCGCTCGTCGTATGAGCAACC
4480	TGTCCAACGCGCAACTCCGATTCAA	TTTGAATCGGAGTTGCGCGTTGGAC
4481	TTTGCCGCACCGTCCGTCTCATCTCAA	TTTGAGATGACGGACGGTGCGGCAA
4482	TAGAACCTCCGCGCCTCCGTAGTAG	TCTACTACGGAGGCGCGGAGGTTCT
4483	TAAAGGAGCTTTCGCCCAACGTACC	TGGTACGTTGGGCGAAAGCTCCTTT
4484	TAGTGATTGTGCCACTCCACAGCTC	TGAGCTGTGGAGTGGCACAATCACT
4485	TGCGATCGTCGAGGGTTGAGCTGAA	TTTCAGCTCAACCCTCGACGATCGC
4486	TGGGAGACAGCCATTATGGTCCTCG	TCGAGGACCATAATGGCTGTCTCCC
4487	TGAGACGCTGTCACTCCGGCAGAAC	TGTTCTGCCGGAGTGACAGCGTCTC
4488	TCCACCGGTGCTTAAGATGCACTT	TAAGTGCATCTTAAGCGACCGGTGG
4489	TCGGCATAACGTCCAGTCCTGGGAC	TGTCCCAGGACTGGACGTTATGCCG
4490	TAAGCGGAACGGGTTATACCGAGGT	TACCTCGGTATAACCCGTTCCGCTT
4491	TTGCACACTAGGTCCGTGCTTGAT	TATCAAGCGACGGACCTAGTGTGCA
4492	TAGGGAACCGCGTTCAAACCTCAGTT	TAACTGAGTTTGAACGCGGTTCCCT
4493	TGAATTACAACCACCCGCTCGTGTT	TAACACGAGCGGGTGGTTGTAATTC
4494	TTTCAGTGCTCACGAAGCATGGATT	TAATCCATGCTTCGTGAGCACTGAA
4495	TTTAGTTTGGCGTTGGGACTTCACC	TGGTGAAGTCCCAACGCCAACTAA
4496	TAATGCGACCTCGACGAGCCTCATA	TTATGAGGCTCGTCGAGGTCGCATT
4497	TCCGAAACCGTTAACGTGGCGCACA	TTGTGCGCCACGTTAACGGTTTCGG
4498	TTAAAGTAACAAGGCGACCTCCCGC	TGCGGGAGGTCGCCTTGTTACTTTA
4499	TTAATGATTTTAGTCGCGGGGTGGG	TCCCACCCCGCGACTAAAATCATTA
4500	TGGCTACTCTAAGTGCCCGCTCAGG	TCCTGAGCGGGCACTTAGAGTAGCC
4501	TTGGCGGACGACTCAATATCTCACG	TCGTGAGATATTGAGTCGTCCGCCA
4502	TGGGCGTTAGGCGTAATAGACCGTC	TGACGGTCTATTACGCCTAACGCCC
4503	TGCCACCTTTAGACGGCGGCTCTAG	TCTAGAGCCGCCGTCTAAAGGTGGC
4504	TGAGATGTGTAAACGTGCAGGCACC	TGGTGCCTGCACGTTTACACATCTC
4505	TTAGCTCGTGGCCCTCCAAGCGTGT	TACACGCTTGGAGGGCCACGAGCTA
4506	TGTGTGCGGCGCTATTTGGCCTTACC	TGGTAAGGCCAAATAGCGCCGACAC
4507	TCCAGGGAAGCAACTGGTTGCCATT	TAATGGCAACCAGTTGCTTCCCTGG
4508	TTTCCGAAACTAAGCCAGAACCGCT	TAGCGGTTCTGGCTTAGTTTCGGAA

Serial No.: 09/940,185
 Filed: August 27, 2001

4509	TGCAAACCCGGTAACCCGAGAGTTC	TGAACTCTCGGGTTACCGGGTTTGC
4510	TGCAAAATGGCGTCATGCACGAACGT	TACGTTTCGTGCATGACGCCATTTGC
4511	TAGTACTTTCGCGCCCAGTTTAGGG	TCCCTAAACTGGGCGCGAAAGTACT
4512	TAAGATCTGCGAGGCATCCCGGCTT	TAAGCCGGGATGCCTCGCAGATCTT
4513	TGCAAGTGTATCGCACAGTGCGATT	TAATCGCACTGTGCGATACACTTGC
4514	TCCGACAAGGCCTCAATTCATTCTG	TCAGAATGAATTGAGGCCTTGTGCG
4515	TGTCTCGTCTCAACTTTAAGGCGCG	TCGCGCCTTAAAGTTGAGACGAGAC
4516	TATCCAGAGATCCGTTTTGCAGCGT	TACGCTGCAAAACGGATCTCTGGAT
4517	TGTCACCAGGAGGGAAGTTTCACCC	TGGGTGAAACTTCCCTCCTGGTGAC
4518	TTTCCGTCAGGCGGATCAACGGAAT	TATTCCGTTGATCCGCCTGACGGAA
4519	TATGCCGGACACGCATTACACAGGC	TGCCTGTGTAATGCGTGTCCGGCAT
4520	TTGGGCCGCTTGCGCCTTTCATAGA	TTCTATGAAAGCGCCAAGCGGCCCA
4521	TCCTAGCGCGAGCTTTACTGACCAG	TCTGGTCAGTAAAGCTCGCGCTAGG
4522	TTTGGCCAGGAATATGGTCTCGAGA	TTCTCGAGACCATATTCTGGCCAA
4523	TGTCTGCGGCCGACTTGCTATGCAT	TATGCATAGCAAGTCGGCCGCAGAC
4524	TAAC TTGCTCATTCTCAAGCCGACG	TCGTCGGCTTGAGAATGAGCAAGTT
4525	TACGTCAGCGATTGTGGCGAAATAT	TATATTTTCGCCACAATCGCTGACGT
4526	TACGGCCTGCGTCAGCACATGCATC	TGATGCATGTGCTGACGCAGGCCGT
4527	TATACCTCCGCAGAACCAATTCCGTT	TAACGGAATGGTTCTGCGGAGGTAT
4528	TAGTTTCGCGGTCCCACGATTCACTT	TAAGTGAATCGTGGGACCGCGAACT
4529	TTGCTCAATTTGTGCAGAAAACGCC	TGGCGTTTTCTGCACAAATTGAGCA
4530	TTTATCGCGAGAGACGACCGTGTCC	TGGACACGGTCGTCTCTCGCGATAA
4531	TGACGCGACGTGAGTAGTGGAAGCG	TCGCTTCCACTACTCACGTCGCGTC
4532	TATGGTAGGGGCATTGGGCTTTCCT	TAGGAAAGGCCAATGCCCTACCAT
4533	TCCAAATATAGCCGCGCGGAGACAT	TATGTCTCCGCGCGGCTATATTTGG
4534	TGCAAACCCTGATTGAATCGTGCCC	TGGGCACGATTCAATCAGGGTTTGC
4535	TTAGCGTCTTGCGTGAAACCATGGG	TCCCATGGTTTCACGCAAGACGCTA
4536	TCCACCCCGACAGCGCTGGACTCTT	TAAGAGTCCAGCGCTGTCGGGGTGG
4537	TACGAGCACTGAAGGCTGCTTTACG	TCGTAAAGCAGCCTTCAGTGCTCGT
4538	TCATATCAGCGTCGTCTAGCTCGCG	TCGCGAGCTAGACGACGCTGATATG
4539	TTGATCCCGGACCGGCTAGACTAAT	TATTAGTCTAGCCGGTCCGGGATCA
4540	TGGCCCCGACACTACAGGGTAATCA	TTGATTACCCTGTAGTGTCGGGGGCC
4541	TGGCTCCAGGGCGAGATTATGAATG	TCATTCATAATCTCGCCCTGGAGCC
4542	TCAAAATCCGATGGGCGGAAAATTA	TTAATTTTCCGCCCATCGGATTTTG
4543	TCACAGGCGCATAGGGAGCAAGCTA	TTAGCTTGCTCCCTATGCGCCTGTG
4544	TTAGCTATTGCCCCGATGGGCTACT	TAGTAGCCCATCGGGGCAATAGCTA
4545	TTGGTACGCGGTCCATAGCAAGTCG	TCGACTTGCTATGGACCGCGTACCA
4546	TGACGCTGTGGCTCGGAAACTGTTC	TGAACAGTTTCCGAGCCACAGCGTC

A11

Serial No.: 09/940,185

Filed: August 27, 2001

4547	TCCTGGGTTTCGCCGCGTGGTAACTG	TCAGTTACCACGCGGCGAACCCAGG
4548	TTTCCCGCGTAGCCCAACAGCTATA	TTATAGCTGTTGGGCTACGCGGGAA
4549	TTTCGCGGATTGCTGCCGCATAACA	TTGTTATGCGGCAGCAATCCGCGAA
4550	TAAAAATGGCACCGAAGTTGAGGCA	TTGCCTCAACTTCGGTGCCATTTTT
4551	TCATTCCGCGCGAGTTGAAATCCAG	TCTGGATTTCAACTCGCGCGGAATG
4552	TACGCACGTTTTTTGGCACGGTTAA	TTTAACCGTGCCAAAAACGTGCGT
4553	TTGTCCATGACGTCGTTTCTCTGGT	TACCAGAGAAACGACGTCATGGACA
4554	TTCTCAGTCGGACTCGTATGCCAGA	TTCTGGCATAACGAGTCCGACTGAGA
4555	TCTCCAAACGCACACATCAAGCATC	TGATGCTTGATGTGTGCGTTTGGAG
4556	TTTCAACCAAGCGGGGTGTTCTGTA	TTACGAACACCCCGCTTGTTGAA
4557	TGGTGTGCGGAGGGTGGTGACCTCGA	TTGAGGTCACCACCCTCCGACACC
4558	TAGCGCTTTTGGTCATGATTTGCAA	TTTGCAAATCATGACCAAAAGCGCT
4559	TCCGAGGACTTACGTCTGCCCAGGA	TTCTGGGCAGACGTAAGTCTCTCGG
4560	TGCCCAATCCAGTTCTTATGCGCCC	TGGGCGCATAAGAACTGGATTGGGC
4561	TCGGGTAAACCCACGCAAGTTATGA	TTCATAACTTGCGTGGGTAAACCCG
4562	TTGATTAGCGCTCAATACACGCGTG	TCACGCGTGATTGAGCGCTAATCA
4563	TAAGGGCAGACCTTTGGTTCGACTG	TCAGTCGAACCAAAGGTCTGCCCTT
4564	TGCGCCACAAGATTCACATGTCATT	TAATGACATGTGAATCTTGTTGGCGC
4565	TGCCATGTTCAAGGGCCTTTCGAAG	TCTTCGAAAGGCCCTTGAACATGGC
4566	TCGCGGTGTTTTGTCTAGGTGCCGG	TCCGGCACCTAGACAAAACACCGCG
4567	TCAACATTGTGGTGGCACTCCATCC	TGGATGGAGTGCCACCACAATGTTG
4568	TCGATACGCGCCGGTTTGTTAAATC	TGATTTAACAAACCGGCGCGTATCG
4569	TGGCTATAAACGTGCGGACTGCTCC	TGGAGCAGTCCGCACGTTTATAGCC
4570	TTGGGTAAATCACTATTGCGCGGTT	TAACCGCGCAATAGTGATTTACCCA
4571	TGTCTTCATCGGCCCGCGCAAGCTA	TTAGCTTGCGCGGGCCGATGAAGAC
4572	TGCGACACACCCTGTACTCTGATGC	TGCATCAGAGTACAGGGTGTGTGCGC
4573	TGTAGCAGGGTCCGCAAGACCAAGC	TGCTTGGTCTTGCGGACCCTGCTAC
4574	TTGCCAACGCAGGGTAACTGCCAT	TATGGCAGTTACCCTGCGTTGGCGA
4575	TACTCCGAAGCTTCGAGCGGCACGA	TTCTGTCCGCTCGAAGCTTCGGAGT
4576	TCATCGTCCCTTTTCGATGGGATCAA	TTTGATCCCATCGAAAGGGACGATG
4577	TGCACGGGAGCTGACGACGTGTCAA	TTTGACACGTCGTCAGTCCCGTGC
4578	TATCATCCACGGCAGAGTGAAGAG	TCTCTTCACTCTGCCGTGGGATGAT
4579	TCGCTGGACTGGCCTATCCGAGTCG	TCGACTCGGATAGGCCAGTCCAGCG
4580	TCGGTCTCAGCAAACTGTGCGAAA	TTTTGCGACAGTGTTGCTGAGACCG
4581	TCGAACGTTCTCCGATGTAATGGCC	TGGCCATTACATCGGAGAACGTTCCG
4582	TATACCGTGCGACAAGCCCCTCTGA	TTCAGAGGGGCTTGTGCGACGGTAT
4583	TAGCTCATTCCCGAGACGGAACACC	TGGTGTTCGCTCTCGGGAATGAGCT
4584	TTTTCATGCGGCCGTTGCAAATCAT	TATGATTTGCAACGGCCGCATGAAA

A 11

Serial No.: 09/940,185
 Filed: August 27, 2001

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4585	TACTCGAACGGACGTTCAATTCCCA	TTGGGAATTGAACGTCCGTTTCGAGT
4586	TCTGCATGGTGTGGGTGAGACTCCC	TGGGAGTCTCACCCACACCATGCAG
4587	TCCGCGAGTGTGGATGGCGTGTTGA	TTCAACACGCCATCCACACTCGCGG
4588	TAATGTGTCGGTCCTAAGCCGGGTG	TCACCCGGCTTAGGACCGACACATT
4589	TTAAGACGAGCCTGCACAGCTTGCG	TCGCAAGCTGTGCAGGCTCGTCTTA
4590	TGGCGTGGGAGGATAAGACGATGTC	TGACATCGTCTTATCCTCCCACGCC
4591	TTGCTCCATGTTAGGAACGCACCAC	TGTGGTGC GTTCTTAACATGGAGCA
4592	TCGGTGTTGGTCGGACTGACGACTG	TCAGTCGT CAGTCCGACCAACACCG
4593	TCCGCGCGTATCTATCAGATCTGGG	TCCCAGATCTGATAGATACGCGCGG
4594	TAAAGCATGCTCCACCTGGAGCGAG	TCTCGCTCCAGGTGGAGCATGCTTT
4595	TACTTGCAATCGCTGGGTAGATCCGG	TCCGATCTACCCAGCGATGCAAGT
4596	TTGCTTACGCAGTGGATTGGTCAGA	TTCTGACCAATCCACTGCGTAAGCA
4597	TATGCAGATGAACAAATCGCCGAAT	TATTCGGCGATTTGTTTCATCTGCAT
4598	TGCAATTCTGGGCCATGTATTCGTC	TGACGAATACATGGCCAGAAATTGC
4599	TAGGGTTCCTTACGCGTCGACATGG	TCCATGTCGACGCGTAAGGAACCCT
4600	TGTGGAGCTAATCGCGAGCCTCAGA	TTCTGAGGCTCGCGATTAGCTCCAC
4601	TTCGTAGTCTCACCGGCAATGATCC	TGGATCATTGCCGGTGAGACTACGA
4602	TTTATAGCAGTGCGCCAATGCTTCG	TCGAAGCATTGGCGCACTGCTATAA
4603	TCGAACAGTGCTGTCCGTCGCTCAA	TTTGAGCGACGGACAGCACTGTTCCG
4604	TTCCGCGTGGACTGTTAGACGCTAT	TATAGCGTCTAACAGTCCACGCGGA
4605	TCATTAGCCCGCTGTCCGTAACGT	TACAGTTACCGACAGCGGGCTAATG
4606	TGGAAAGAACTCAGACGCGCAATG	TCATTGCGCGTCTGAGTTTCTTTCC
4607	TCGACTCGCTGGACAGGAGAATCGT	TACGATTCTCCTGTCCAGCGAGTCG
4608	TCATGATCCTCTGTTTACCCGCGG	TCCGCGGGTGAAACAGAGGATCATG
4609	TGGCGTAGCGCTCTAAAAGCTTCGG	TCCGAAGCTTTTAGAGCGCTACGCC
4610	TAGTGATGCCATCAGGCCCGTATAC	TGTATACGGGCCTGATGGCATCACT
4611	TTATGGAAAGGGCAACAGCGCTATC	TGATAGCGCTGTTGCCCTTCCATA
4612	TCTGTGGTTGATGGAGGATCCACAC	TGTGTGGATCCTCCATCAACCACAG
4613	TACTCGCTGGAATTTGCGCTGACAC	TGTGTCAGCGCAAATTCAGCGAGT
4614	TCAGGCCCGAACCACGCGGTTACAG	TCTGTAACCGCGTGGTTCCGGGCCTG
4615	TGGCGCAATGGGCGCATAAATACTA	TTAGTATTTATGCGCCCATTGCGCC
4616	TGGTCAATTCGCGCTACATGCCCTA	TTAGGGCATGTAGCGCGAATTGACC
4617	TGATGGTGGACTGGAGCCCTTCCGC	TGCGGAAGGGCTCCAGTCCACCATC
4618	TCCGCGCATAGCGCAATAGGGGAGA	TTCTCCCCTATTGCGCTATGCGCGG
4619	TTCTTCTGGCTGTCCGGCACCCGAA	TTTCGGGTGCCGGACAGCCAGAAGA
4620	TGCGTTCGCAATTCACGGGCCCTTA	TTAAGGGCCCGTGAATTGCGAACGC
4621	TTCGTTTCGGCCTTGAGAGTATCG	TCGATACTCTCCAAGGCCGAAACGA
4622	TAGGTGCAAGTGCAAGGCGAGAGGC	TGCCTCTCGCCTTGCACTTGACACT

Serial No.: 09/940,185
Filed: August 27, 2001

4623	TCGCCAGTTTCGATGGCTGACGTTT	TAAACGTCAGCCATCGAAACTGGCG
4624	TGCTTTACCGCCGATCCCAGATATC	TGATATCTGGGATCGGCGGTAAAGC
4625	TGTGCTTGACGAAGAGGCGAAATGT	TACATTTGCGCTCTTCGTCAAGCAC
4626	TCAGTCCGTGCGCTTCATGTCCTCA	TTGAGGACATGAAGCGCACGGACTG
4627	TTACGCGTAAGAGCCTACCCTCGCG	TCGCGAGGGTAGGCTCTTACGCGTA
4628	TGGCGAGTCTTGTGGGGACATGTGT	TACACATGTCCCCACAAGACTCGCC
4629	TCCAAAGCGAAGCGAGCGTGTCTAT	TATAGACACGCTCGCTTCGCTTTGG
4630	TGCCGTAGGTTGCTCTTCACCGAAC	TGTTCCGTGAAGAGCAACCTACGGC
4631	TAAATCCGCGATGTGCCGTGAGGCT	TAGCCTCACGGCACATCGCGGATTT
4632	TGGCTTCGCACCCGTACCAATTTAG	TCTAAATTGGTACGGGTGCGAAGCC
4633	TTGTAGAGTCCACGTAGCCGGCAT	TATGCCGGCTACGTGGGACTCTACA
4634	TCACTAGTCTGGGGCAAGGTGCATT	TAATGCACCTTGCCCCAGACTAGTG
4635	TTGTACTCGGCAGGCGCAATAGATT	TAATCTATTGCGCCTGCCGAGTACA
4636	TAACGGGTATCGGAAGCGTAAAGC	TGCTTTTACGCTTCCGATACCCGTT
4637	TCGGACTGCCCGTTTGCAAGTTGAG	TCTCAACTTGCAAACGGGCAGTCCG
4638	TATCGTTCAGCACTGGAGCCCGTAA	TTTACGGGCTCCAGTGCTGAACGAT
4639	TATGCATCGAACTAGTCGTGACGGC	TGCCGTCACGACTAGTTCGATGCAT
4640	TTTCCAGGCATTAAGGAGAGGGAGC	TGCTCCCTCTCCTTAATGCCTGGAA
4641	TGTGCGACATCTACTCCACGATCCC	TGGGATCGTGGAGTAGATGTGCGAC
4642	TCTCATCGTCCTAACACGAGAGCCC	TGGGCTCTCGTGTTAGGACGATGAG
4643	TAATGGCACTTCGGCGGTGATGCAA	TTTGCATCACCGCCGAAGTGCCATT
4644	TCCGTGGGAGGGAATCCAACCGAGG	TCCTCGGTTGGATTCCCTCCCACGG
4645	TAAATTCTCGTTGGTGACGGCTCAT	TATGAGCCGTCACCAACGAGAATTT
4646	TTTGCTCTTATCCTTGTCCTGGGCG	TCGCCCAGGACAAGGATAAGAGCAA
4647	TTTAAGGATCAGGCGGAGCTTGCA	TCTGCAAGCTCCGCCTGATCCTTAA
4648	TCGCGACTAAGGTGCTGCAACTCGA	TTGAGTTGCAGCACCTTAGTCGCG
4649	TGCTCGATTTACGGCCCGTTGTTT	TGAACAACGGGCCGTGAAATCGAGC
4650	TAGCAGAGTGCGTTGCAGAGGCTAA	TTTAGCCTCTGCAACGCACTCTGCT
4651	TTGGAGGTGAGGACGACGTGCACTA	TTAGTGCACGTCGTCCTCACCTCCA
4652	TAACCGTTTAGGGTACATTCGCGGT	TACCGCGAATGTACCCTAAACGGTT
4653	TTATGATCGCTCGGCTCACAGTTTG	TCAAACGTGAGCCGAGCGATCATA
4654	TGACTTTTTGCGGAAACGTCATGGT	TACCATGACGTTTCCGCAAAAAGTC
4655	TTGTCGGTTATTCCACCTGCAAGGA	TTCTTGCAGGTGGAATAACCGACA
4656	TCTATGGTTTGCCTGCGCCGTCGA	TTGACGGCGCAGTGCAAACCATAG
4657	TAGCAGGGAAATTCAATCGTTTCGA	TTGCGAACGATTGAATTTCCCTGCT
4658	TCCTAACCAGAGCGCTTAGCATTTCC	TGGAAATGCTAAGCGCTCGGTTAGG
4659	TCCCGACCCTAACTCGCATTGAATA	TTATTCAATGCGAGTTAGGGTCGGG
4660	TTTGCTTAATGGTGACGCCACGGAT	TATCCGTGGCGTCACCATTAAGCAA

A 11

Serial No.: 09/940,185
 Filed: August 27, 2001

4661	TGATGCTCGCCGTGTTTAGTTCACG	TCGTGAACTAAACACGGCGAGCATC
4662	TTCGGATGACGAGTTTCCATGACGG	TCCGTCATGGAAACTCGTCATCCGA
4663	TATGCGGTCTACTTTCTCGATCGGG	TCCCGATCGAGAAAGTAGACCGCAT
4664	TTTGCGAGGCTAAGCACACGGTAAA	TTTTACCGTGTGCTTAGCCTCGCAA
4665	TAACCTAATTACCGCCTCTGGCGCC	TGGCGCCAGAGGCGGTAATTAAGTT
4666	TGTGACCGCGAACTTGTTCCGACAG	TCTGTCGGAACAAGTTCGCGGTCAC
4667	TTGCGGATTACCGATTGCTCTTAA	TTTAAGAGCGAATCGGTAATCCGCA
4668	TTGATAGGGGGCCACGTTGATCAGA	TTCTGATCAACGTGGCCCCCTATCA
4669	TTGCTCCGTAGCGATTATCGTAG	TCTACGATGAATCGCTACGGAGCGA
4670	TTGTCAGCTGGTAGCCTCCGTTTGA	TTCAAACGGAGGCTACCAGCTGACA
4671	TAGCGTCGCATGACGCTTACGGCAC	TGTGCCGTAAGCGTCATGCGACGCT
4672	TAGACGCACCGCAACAGGCTGTCAA	TTTGACAGCCTGTTGCGGTGCGTCT
4673	TCGTGTAGGGGTCCCGTGCTGTCAA	TTTGACAGCACGGGACCCCTACACG
4674	TGTCGCATTCTGCACTGGCTTCGCC	TGGCGAAGCCAGTGCAGAATGCGAC
4675	TTGATTAGGTGCGGTCCCGTAGTCC	TGGACTACGGGACCGCACCTAATCA
4676	TAAGGGACCTTGGGTGACGGCGAGA	TTCTCGCCGTCACCCAAGGTCCCTT
4677	TTCAAATGGCCACCGCGTGTCATTC	TGAATGACACGCGGTGGCCATTGTA
4678	TCTCCGACGACCAATAAATAGCCGC	TGCGGCTATTTATTGGTCGTCGGAG
4679	TGGCTATTCCCGTAGAGAGCGTCCA	TTGGACGCTCTCTACGGGAATAGCC
4680	TTGGATAACCTCTCGGTCCATCCAC	TGTGGATGGACCGAGAGGTTATCCA
4681	TGACCGCTGTACGGGAGTGTGCCTT	TAAGGCACACTCCCGTACAGCGGTC
4682	TGCCACAGAGTTTTAGCAGGGACCC	TGGGTCCCTGCTAAACTCTGTGGC
4683	TCCCACGCTTTCCGACCACTGACCT	TAGGTCAGTGGTCGGAAAGCGTGGG
4684	TCATTGACACAATGCGGGGACTGAT	TATCAGTCCCCGCATTGTGTCAATG
4685	TAGCCACTCGACAGGGTTCCAAAGC	TGCTTTGGAACCTGTGAGTGGCT
4686	TCAGGATGAGCAAAGCGACTCTCCA	TTGGAGAGTCGCTTTGCTCATCCTG
4687	TCAAGGTATGGTCTGGGGCCTAAGC	TGCTTAGGCCCCAGACCATACCTTG
4688	TGGTGTTTCGGCCTAAACTCTTTCGG	TCCGAAAGAGTTTAGGCCGAACACC
4689	TTTTAGTCGGACCCTGTGGCAATTC	TGAATTGCCACAGGGTCCGACTAAA
4690	TCACACGTTTCCGACCAGCCTGAAC	TGTTCAAGCTGGTCGGAAACGTGTG
4691	TCTGGACGAACTGGCTTCCTCGTAC	TGTACGAGGAAGCCAGTTCGTCCAG
4692	TTTCACAATCCGCCGAAAACCTGACC	TGGTCAGTTTTTCGGCGGATTGTGAA
4693	TAACAGGATATCCGCGATCACGACA	TTGTCGTGATCGCGGATATCCTGTT
4694	TTACGTCGGATCCATTGCGCCGAGT	TACTCGGCGCAATGGATCCGACGTA
4695	TCATGGATCTCTCGGTTTGATCGCC	TGGCGATCAAACCGAGAGATCCATG
4696	TAGCCAGGCGCGTATATACGCTCGG	TCCGAGCGTATATACGCGCCTGGCT
4697	TATTTGGCACGTGTGCTGCCATGTT	TAACATGGCACGACACGTGCCAAAT
4698	TCCGCGTTGCACCACTTTGAGGTGC	TGCACCTCAAAGTGGTGCAACGCGG

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Serial No.: 09/940,185
 Filed: August 27, 2001

4699	TTTGGACGTGACAAGCATGGCGCTC	TGAGCGCCATGCTTGTACGTCCAA
4700	TCTGAATCGCGCAAGTAAATGGGGG	TCCCCATTTACTTGCGCGATTGAG
4701	TGATAAGGTCCACCAGATTGCGCGC	TGCGCGCAATCTGGTGGACCTTATC
4702	TCTAACAATTGCCAACCGGGACGGC	TGCCGTCCCGGTTGGCAATTGTTAG
4703	TGGTAACCTGGGTGCTTGCAGGTTA	TTAACCTGCAAGCACCCAGGTTACC
4704	TATCGGAGCCACCATTGCGATTGGG	TCCCAATGCGAATGGTGGCTCCGAT
4705	TGTGAACTGGCTTGCCCCAGGATTA	TTAATCCTGGGGCAAGCCAGTTCAC
4706	TAGGCGATAGCATGGTCCCATATGA	TTCATATGGGACCATGCTATCGCCT
4707	TAACGGTATCGTGGCTAATGCACGA	TTCGTGCATTAGCCACGATACCGTT
4708	TAGTAGTGGTCCTCCAGATCGGCAA	TTTGCCGATCTGGAGGACCACTACT
4709	TCCGTTGAATTGGACGGGAGGTTAG	TCTAACCTCCCGTCCAATTCAACGG
4710	TGCATAAGTGCGGCATCGCGAAGGG	TCCCTTCGCGATGCCGCACTTATGC
4711	TCGACAAGATGCAGCTGCTACATGC	TGCATGTAGCAGCTGCATCTTGTGCG
4712	TTTCGAGTGATTCCCGACCGATAAG	TCTTATCGGTGCGGAATCACTGCGA
4713	TCAAGGCGAGTCCACTCGAGGGGAC	TGTCCCCTCGAGTGGACTCGCCTTG
4714	TGCAACTTGCACGGCATAAGTGGCC	TGGCCACTTATGCCGTGCAAGTTGC
4715	TTCCGAGCTTGACGTTGCGGACGTC	TGACGTGCGGAACGTCAAGCTCGGA
4716	TAGCGCTGGGCTGTGCTGCCATCTC	TGAGATGGCAGCACAGCCCAGCGCT
4717	TTTCATGTCGCTGAGTAACCCTCGC	TGCGAGGGTTACTCAGCGACATGAA
4718	TCGAACCGCTAATGCCCATTGTCAG	TCTGACAATGGGCATTAGCGGTTGCG
4719	TCACGGAAGGTGGGACAAATCGCCG	TCGGCGATTTGTCCACCTTCCGTG
4720	TCACAGATGGAGACAAACGCGCCTT	TAAGGCGCGTTTGTCTCCATCTGTG
4721	TTTTTCGCAACTCGCTCCATAACCC	TGGGTTATGGAGCGAGTTGCGAAAA
4722	TACGTTACGTTTCCGGCGCCTCTAA	TTTAGAGGCGCCGGAAACGTAACGT
4723	TTATCGGATTGCGTGGGTTTCAATC	TGATTGAAACCCACGCAATCCGATA
4724	TCTTCCACAATTGTCTGCGACGCAC	TGTGCGTCGCAGACAATTGTGGAAG
4725	TTGCACAAAGGTATGGCTGTCCGGC	TGCCGGACAGCCATACCTTTGTGCA
4726	TTCCGATGCCAGTCCCATCTTAAGA	TTCTTAAGATGGGACTGGCATCGGA
4727	TCTGAAACCGTGCGAATCGAGGTGA	TTACCTCGATTGCGACGGTTTCAG
4728	TCGGTGTTCCGCGTGTGAAAAAAT	TATTTTTTCGACACGCGGAACACCG
4729	TTCTAGCAGGCCTTTTGAATCGCCA	TTGGCGATTCAAAAGGCCTGCTAGA
4730	TGAGTCACCTCTGAGACGGACGCCA	TTGGCGTCCGTCTCAGAGGTGACTC
4731	TTCTTCTGTCATCCTGCAGCAGCAT	TATGCTGCTGCAGGATGACAGAAGA
4732	TGCGGATGAAACCTGAAAGGGGCCT	TAGGCCCTTTTCAAGTTTCATCCGC
4733	TGGGGCCCCAACTGGTATCAAGCC	TGGCTTGATACCAGTTTGGGGCCCC
4734	TGCATTGGCTTCGGATTCTCCTACA	TTGTAGGAGAATCCGAAGCCAATGC
4735	TAGGCGGCCCAACTGTGAGGTCTTG	TCAAGACCTCACAGTTGGGCCGCCT
4736	TACACCATGTGCTCCGCGCTGCAGT	TACTGCAGCGCGGAGCACATGGTGT

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Serial No.: 09/940,185

Filed: August 27, 2001

4737	TACGATGAACATGAATCGGGAGTCG	TCGACTCCCGATTTCATGTTTCATCGT
4738	TCTGCATCCCTGTAGCAGCGCTCCG	TCGGAGCGCTGCTACAGGGATGCAG
4739	TGTGCCGTATTTTCGACCTGTGCGTT	TAACGCACAGGTCGAAATACGGCAC
4740	TGCAGTGCGCACTTCAGTTCAAAAG	TCTTTTGAAGTGAAGTGCGCACTGC
4741	TGCGATTTTAAGCGATGCCTTGACG	TCGTCAAGGCATCGCTTAAAATCGC
4742	TTAGGTGACCTAGGCTTGCTTGCGG	TCCGCAAGCAAGCCTAGGTCACCTA
4743	TCTGGATACCTTGCTGTGCGGCGC	TGCGCCGCACAGGCAAGGTATCCAG
4744	TCCCCTTACGGCTCGTCGTCTATGC	TGCATAGACGACGAGCCGTAAGGGG
4745	TGCGCTTGCCCGATGCGATTGCATTA	TTAATGCATCGCATCGGGCAAGCGC
4746	TTTTCTGTAAAGCGGCCTGGGGTTCA	TTGAACCCAGGCCGCTTACAGAAA
4747	TGGCTGAGGTGAGCGGTAAGGATGA	TTCATCCTTACCGCTCACCTCAGCC
4748	TTCTTGGCCTCCCCGATCTAATTTG	TCAAATTAGATCGGGGAGGCCAAGA
4749	TGGAGGTAACGCCGTGTACGTAGGA	TTCCTACGTACACGGCGTTACCTCC
4750	TGTAATCCATTTGTGGCTGCGTCAA	TTTGACGCAGCCACAAATGGATTAC
4751	TCAAACCCATTCCAGCAGACGCCTG	TCAGGCGTCTGCTGGAATGGGTTTG
4752	TTAGGAGGAATTTGGCATGCGGGCG	TCGCCCCGATGCCAAATTCCTCCTA
4753	TATAGGTAGGATGTGCCCCGGCGTTG	TCAACGCCGGGCACATCCTACCTAT
4754	TGCAAGTGCTTAGCTCGTCAGCCTC	TGAGGCTGACGAGCTAAGCACTTGC
4755	TCTGGCTGTGTGCGCATCTCGTTAAC	TGTTAACGAGATGCGACACAGCCAG
4756	TCTAACGTCGTCTCGCGCAATCACT	TAGTGATTGCGCGAGACGACGTTAG
4757	TTTTTCATAAACGTTGTCCCCGAGC	TGCTCGGGGACAACGTTTATGAAAA
4758	TAGCAGGAGGACGAACCTCCGCTCC	TGGAGCGGAGGTTTCGTCCTCCTGCT
4759	TTTCAAGCACCATCGTGCAATCCAA	TTTGGATTGCACGATGGTGCTTGAA
4760	TAGCGTCGCCAGTGATCGCTAGTGG	TCCACTAGCGATCACTGGCGACGCT
4761	TTACATTCCCTGCCTCCGTGGGCTT	TAAGCCCACGGAGGCAGGGAATGTA
4762	TCGCTTCGCGTATTTCAGTAGCGGTT	TAACCGCTACTGAATACGCGAAGCG
4763	TTCGGACGCGTCGACACTCATTATA	TTATAATGAGTGTCGACGCGTCCGA
4764	TTCTGAGCAGGCCAGCGCTCCAGCT	TAGCTGGAGCGCTGGCCTGCTCAGA
4765	TTTGAATTGCCAAGCCCTGAAAGCC	TGGCTTTCAGGGCTTGGCAATTCAA
4766	TAGTTTTCGCCTTGATGCGTCGGTG	TCACCGACGCATCAAGGCGAAAAC
4767	TGTTTCATAGGCCACGCGTGCTAAA	TTTTCAGCACGCGTGGCCTATGAAAC
4768	TCATCGCTGCAAGTACCGCACTCAA	TTTGAGTGCGGTAAGTGCAGCGATG

Serial No.: 09/940,185
Filed: August 27, 2001

IN THE CLAIMS:

Please replace the section entitled "CLAIMS", starting on page 255, line 1, with the following rewritten section:

CLAIMS

We claim:

- A12
1. An oligonucleotide array comprising an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.
 2. An array according to claim 1, wherein said capture probes are microspheres.
 3. An array according to claim 1 or 2 wherein said array is a liquid array.
 4. An array according to claim 1 or 2, wherein said array further comprises a solid support.
 5. An array according to claim 1, wherein said addresses are microspheres and wherein said solid support comprises wells into which said microspheres are individually distributed.
 6. An array according to claim 1, wherein each address is a different known location, and said wherein each capture probe is attached to one of said known locations.
 7. An array according to claim 1, wherein said array comprises at least 50 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.

Serial No.: 09/940,185

Filed: August 27, 2001

8. An array according to claim 1 wherein said array comprises at least 100 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.

9. A kit comprising at least twenty-five nucleic acids selected from the group consisting of sequences substantially complementary to the sequences set forth in Table 1, Table 2, Table 3 and Table 4 or their complement. (amended)

10. A kit according to claim 9, wherein said kit comprises at least 50 nucleic acids selected from the group consisting of the sequences substantially complementary to the sequences set forth in Table 1, Table 2, Table 3 and Table 4 or their complement. (amended)

11. A kit according to claim 9, wherein said kit comprises at least 100 nucleic acids selected from the group consisting of the sequences substantially complementary to the sequences set forth in Table 1, Table 2, Table 3 and Table 4 or their complement. (amended)

12. A kit according to claim 9, wherein said nucleic acids further comprise at least a first universal priming sequence.

13. A kit according to claim 9, wherein said nucleic acid sequence further comprises a sequence substantially complementary to a target domain.

14. A method of immobilizing a target nucleic acid sequence, said method comprising:

a) attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein said first adapter nucleic acid comprises a sequence substantially complementary to a sequence selected from the sequences set forth in Table 1, Table 2, Table 3 and Table 4;

Serial No.: 09/940,185
Filed: August 27, 2001

b) contacting said modified first target nucleic acid sequence with an array comprising an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4, whereby said target nucleic acid sequence is immobilized. (amended)

15. A method of detecting a target nucleic acid sequence, said method comprising:

a) attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein said first adapter nucleic acid comprises a sequence substantially complementary to a sequence selected from the sequences set forth in Table 1, Table 2, Table 3 and Table 4;

b) contacting said modified first target nucleic acid sequence with an array comprising:

an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4; and

c) detecting the presence of said modified first target nucleic acid sequence. (amended)

16. A method of detecting a target nucleic acid, said method comprising:

a) hybridizing a first adapter probe with a first target nucleic acid, said first adapter probe comprising a first domain that is complementary to said first target nucleic acid and a second domain, said second domain comprising a first sequence substantially complementary to a selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4 to form a first hybridization complex;

b) contacting said first hybridization complex with an enzyme such that when said first domain of said adapter probe is perfectly complementary with said first target nucleic acid, said first adapter probe is altered resulting in a modified first adapter probe;

A12
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Serial No.: 09/940,185
Filed: August 27, 2001

- A12
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- c) contacting said modified first adapter probe with a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that said first capture probe and said modified first adapter probe form a second hybridization complex; and
- d) detecting the presence of said modified first adapter probe as an indication of the presence of said target nucleic acid. (amended)
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REMARKS

Attached hereto is a marked-up version of the changes made to the specification by the current amendment. The attached page is captioned "Version with markings to show changes made."

These amendments are made in adherence with 37 C.F.R. § 1.821-1.825. This amendment is accompanied by a floppy disc containing the above named sequence, SEQUENCE ID NUMBERS 1-4768, in computer readable form, and a paper copy, submitted as a compact disk, of the sequence information. The computer readable sequence listing was prepared through use of the software program "Patent-In" provided by the PTO. The information contained in the computer readable form is identical to that of the paper copy, submitted as a compact disk. This amendment contains no new matter. Applicant submits that this amendment, the accompanying computer readable sequence listing, and the compact disk copy thereof serve to place this application in a condition of adherence to the rules 37 C.F.R. § 1.821-1.825.

Serial No.: 09/940,185

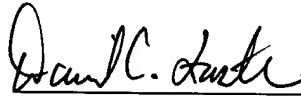
Filed: August 27, 2001

Please direct any calls in connection with this application to the undersigned at
(415) 781-1989.

Respectfully submitted,

FLEHR HOHBACH TEST

ALBRITTON & HERBERT LLP

A handwritten signature in cursive script, appearing to read "David C. Foster", written over a horizontal line.

David C. Foster

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